

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_1				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	16
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0013_01_s_2013_16				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2019.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	89	
LM End	1.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.582147 °	39.582147 °	
				-121.700540 °	-121.700540 °	
DWR ID	16343					
Comment Code						
Inspector Comment						
DS_ID:16343 FS_ID:54938 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, due to unauthorized encroachment. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/10/2013 Same as last inspection.04/17/2012 Drain is still in use. 4 inch pipe in channel near WS headwall (see photo). The pipe does not appear to impact the crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS). Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 1.15). USACE Sacramento O&M Manual 519, June 1962 (HLM 1.15), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 1072+20E, page 20 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/6/2019 8:46:00 AM						

Photo 1 of 3 : UCIP\_SP\_2020\_54938\_66689.jpg



Overview of levee crown at crossing looking D/S .

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.13	Rating **	M	Issue No.	89 (cont)
LM End	1.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.582147 °	39.582147 °
				-121.700540 °	-121.700540 °
DWR ID	16343				

Photo 2 of 3 : UCIP\_SP\_2020\_54938\_66688.jpg



View of WS headwall and flap gate.

LM Start	<b>1.13</b>	Rating **	M	Issue No.	<b>89 (cont)</b>
LM End	<b>1.13</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54938\_66687.jpg



View of WS with pipe in channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.59	Rating **	M	Issue No.	90
LM End	1.59	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.576883 °	39.576883 °	
			-121.702770 °	-121.702770 °	
DWR ID	16831				

**Comment Code**

**Inspector Comment**

DS\_ID:16831  
FS\_ID:54939  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/06/2019 Record remains Non-Urgent, need to clarify owner for this crossing. This pipe has been identified as an LMA responsible drainage pipe. However, adjacent property owner has modified the WS outlet by burying the concrete headwall. No permit has been found authorizing the modification to the WS. LMA and adjacent property owner will need to coordinate with the CVFPB to comply with Title 23. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 Same as last inspection; still no sign of WS pipe end. Unclear if this SD crossing is still in use. The WS toe has standing, mucky, water around where the pipe end should be. Downgrading to Non-Urgent from Urgent because there appears no immediate threat to levee. Recommend follow up with owner to determine pipe use, and an internal pipe inspection to determine pipe integrity and threat to levee (D. Sanoski - DWR UCIP).06/14/2017 Still no sign of WS pipe end. Pipe may need to be traced with GPR and excavated to determine if the WS end was properly capped after the Headwall and pipe sections were removed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 WS structures still removed. (DWR Sutter Yard- A.Freitag)10/17/2016 Landowner removed WS concrete headwall and pipe section through floodway to make room for orchard. The area disturbed appears to be from WS toe to where the mature trees are located within floodway, approximately 45 feet from WS toe. Crossing is classified as Urgent with potential levee integrity issues due to the disturbance of the WS without prior approval from the CVFPB. (DWR UCIP - omagana)  
04/28/2016 Landowner appears to have removed the WS headwall and pipe to make room for planting more orchard trees. LS pipe end was full of water as it has no where to drain to anymore. Changing to urgent listing but it currently does not affect the levee integrity. (see photos 8, 9, & 10) (DWR Sutter Yard - afreitag)07/14/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)05/21/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/02/2013 Pipe section was dug up and repaired. Crossing is now in good condition. (DWR Sutter Yard - afreitag) 04/17/2012 Pipe collapse on WS 10 feet from toe, needs repair. From WS, sediment is visible inside pipe. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 7.8 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in corrugated metal pipe (CMP) riser on the WS slope. [Additional Reference(s): DWR Levee Log, 1993 (HLM 1.61), listed as 26-inch pipe. USACE

Photo 1 of 3 : UCIP\_SP\_2020\_54939\_66695.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

Sacramento O&M Manual 519, June 1962 (HLM 1.62), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 1049+53E, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/6/2019 8:50:00 AM

LM Start	<b>1.59</b>	Rating **	M	Issue No.	<b>90 (cont)</b>
LM End	<b>1.59</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2020\_54939\_66699.jpg



Corrugated metal riser with slide gate located on WS slope.

LM Start	<b>1.59</b>	Rating **	M	Issue No.	<b>90 (cont)</b>
LM End	<b>1.59</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54939\_66698.jpg



WS headwall, rock protection, and outlet blocked by shrub.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

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### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.50	Rating **	M	Issue No.	73
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.563676 °	39.563676 °
				-121.703775 °	-121.703775 °
DWR ID	DWR_MA0013_01_f_2019_73				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_300\_73\_20200226\_00011.jpg



View of depressions in the waterside slope due to vehicle traffic. Fall 2019.

LM Start	2.70	Rating **	M	Issue No.	93	
LM End	2.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.561130 °		39.561130 °
				-121.705140 °		-121.705140 °
DWR ID	16347					
Comment Code						
Inspector Comment						
DS_ID:16347 FS_ID:54942 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, no permit identified. Crossing is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/17/2012 Vegetation/sedimentation from WS has been removed. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0130 for WS flap gate closed and blocked by sediment. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.74). USACE Sacramento O&M Manual 519, June 1962 (HLM 2.74), listed as 24-inch pipe] FS Date: 8/6/2019 9:39:00 AM						

Photo 1 of 3 : UCIP\_SP\_2020\_54942\_66715.jpg



Overview of levee crown looking downstream at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>2.70</b>	Rating **	M	Issue No.	<b>93 (cont)</b>
LM End	<b>2.70</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.561130 °	39.561130 °
				-121.705140 °	-121.705140 °
DWR ID	16347				

Photo 2 of 3 : UCIP\_SP\_2020\_54942\_66714.jpg



Flap gate at WS.

LM Start	<b>2.70</b>	Rating **	M	Issue No.	<b>93 (cont)</b>
LM End	<b>2.70</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54942\_66711.jpg



View of channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	94
LM End	3.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556310 °	39.556310 °
				-121.706470 °	-121.706470 °
DWR ID	17372				

**Comment Code**

**Inspector Comment**

DS\_ID:17372  
FS\_ID:54943  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/06/2019 Record remains Non-Urgent, no permit identified authorizing pipe. Pipe has been internally cleaned and cleared of any obstructions on the WS and LS. DMP internal inspection pending. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is completely buried by sediment-needs to be dug out. Pipe is about 50% full of sediment inside. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Pipe about 50% full of sediment. (DWR Sutter Yard- A.Freitag)04/28/2016 Pipe on LS is about 50% full of sediment. There is now a concrete pipe that discharges into the LS inlet of this crossing. Not sure where the concrete pipe comes from.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Pipe section was dug up and repaired. Crossing is now in good condition.07/15/2013 Pipe appears to have a possible hole in top of pipe about 10ft. in from LS headwall.04/17/2012 LS headwall blocked by sediment (50 % of opening is covered). LS floor is higher than LS pipe invert. WS headwall has been recently cleared of vegetation and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE\_CESPK\_M13D\_2011\_p\_0157 for WS and LS inlet/outlet blocked by sediment.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.8 feet below the crown. Flap gate is located on the waterside (WS). Concrete headwall located on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.07), listed as 24-inch pipe. USACE Sacramento O&M Manual 519, June 1962 (HLM 3.10), listed as 36-inch pipe]  
FS Date: 8/6/2019 9:47:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_54943\_66718.jpg



Overview of levee crown looking downstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.05	Rating **	M	Issue No.	94 (cont)
LM End	3.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556310 °	39.556310 °
				-121.706470 °	-121.706470 °
DWR ID	17372				

Photo 2 of 3 : UCIP\_SP\_2020\_54943\_66716.jpg



WS levee slope.

LM Start	<b>3.05</b>	Rating **	M	Issue No.	<b>94 (cont)</b>
LM End	<b>3.05</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54943\_66720.jpg



Flap gate on waterside.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.24	Rating **	M	Issue No.	95
LM End	3.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.553490 °	39.553490 °
				-121.706680 °	-121.706680 °
DWR ID	16349				

**Comment Code**

**Inspector Comment**

DS\_ID:16349  
FS\_ID:54944  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/06/2019 Record remains Non-Urgent, no permit found authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both pipe ends and gates are mostly buried- need to be dug out. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Both gates closed but partially buried and unable to open. (DWR Sutter Yard- AFreitag)04/28/2016 Sediment build up on both gates blocking them from operating properly.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Stem on LS screw gate has been replaced and is now full functional.04/17/2012 LS slide gate stem is bent and prevents gate from fully closing. Both WS and LS have been cleared of debris and sediment. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE\_CESPK\_M13D\_2011\_p\_0162 for inoperable gates on WS & LS due to sediment and grass blocking inlet and outlet.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.9 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate visible on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.29). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.29), listed as 24-inch pipe]  
FS Date: 8/6/2019 10:02:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_54944\_66725.jpg



Overview of levee crown looking DS at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>95 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.553490 °	39.553490 °	
			-121.706680 °	-121.706680 °	
DWR ID	16349				

Photo 2 of 3 : UCIP\_SP\_2020\_54944\_66724.jpg



Flap gate on WS.

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>95 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54944\_66726.jpg



Recent sediment removal on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	96
LM End	3.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.553129 °	39.553129 °
				-121.706640 °	-121.706640 °
DWR ID	16350				

**Comment Code**

**Inspector Comment**

DS\_ID:16350  
FS\_ID:54945  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/06/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is buried by sediment- needs to be dug out. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/17/2012 WS headwall has been cleared of debris and sedimentation.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.31). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.31), listed as 24-inch pipe]  
FS Date: 8/6/2019 10:03:00 AM

LM Start	<b>3.27</b>	Rating **	M	Issue No.	<b>96 (cont)</b>
LM End	<b>3.27</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_54945\_66731.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2020\_54945\_66730.jpg



View of WS flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.27	Rating **	M	Issue No.	96 (cont)
LM End	3.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.553129 °	39.553129 °
				-121.706640 °	-121.706640 °
DWR ID	16350				

Photo 3 of 3 : UCIP\_SP\_2020\_54945\_66732.jpg



Sedimentation cleared on WS.

LM Start	3.72	Rating **	M	Issue No.	97
LM End	3.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.546592 °	39.546592 °
				-121.707560 °	-121.707560 °
DWR ID	16351				

**Comment Code**

**Inspector Comment**

DS\_ID:16351  
 FS\_ID:54946  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this crossing. Crossing is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both pipe ends were underwater during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)04/28/2016 Both sides of the crossing were underwater during time of inspection.07/14/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.  
 FIELD\_STRUCT\_DESC: 24-inch corrugate metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.80). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.80), listed as 24-inch pipe]  
 FS Date: 8/26/2019 12:22:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54946\_66736.jpg



Overview of levee crown at crossing looking downstream.

**\* Location**

LS : Land Side N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable N : Not Inspected/Rated  
 M : Minimally Acceptable C : Corrected  
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.72	Rating **	M	Issue No.	97 (cont)
LM End	3.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.546592 °	39.546592 °
				-121.707560 °	-121.707560 °
DWR ID	16351				

Photo 2 of 3 : UCIP\_SP\_2020\_54946\_66738.jpg



WS slope covered by dense vegetation.

LM Start	<b>3.72</b>	Rating **	M	Issue No.	<b>97 (cont)</b>
LM End	<b>3.72</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54946\_66735.jpg



WS flap gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.74	Rating **	M	Issue No.	98
LM End	3.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID	16365				
Comment Code					
Inspector Comment					
DS_ID:16365 FS_ID:54947 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record remains Non-Urgent, pipe has been abandoned. No permit has been identified for this crossing. DMP internal inspection has not been completed. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Appears abandoned-needs to be done properly. WS gate was buried/submerged and the LS slide gate is still damaged and buried. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Both LS and WS gates buried. (DWR Sutter Yard- A.Freitag)04/28/2016 Abandoned crossing. Ls screw is still bent and mostly buried.07/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over.04/18/2012 LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.80). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.82), listed as 24-inch pipe] FS Date: 8/26/2019 12:24:00 PM					

Photo 1 of 3 : UCIP\_SP\_2020\_54947\_66743.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>3.74</b>	Rating **	M	Issue No.	<b>98 (cont)</b>
LM End	<b>3.74</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID	16365				

Photo 2 of 3 : UCIP\_SP\_2020\_54947\_66741.jpg



WS flap gate blocked by debris.

LM Start	<b>3.74</b>	Rating **	M	Issue No.	<b>98 (cont)</b>
LM End	<b>3.74</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54947\_66742.jpg



LS slide gate covered with silt. Slide gate is bent.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.35	Rating **	M	Issue No.	100	
LM End	4.35	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.537516 °	39.537516 °	
				-121.707580 °	-121.707580 °	
DWR ID	16341					
Comment Code						
Inspector Comment						
DS_ID:16341 FS_ID:54949 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is shut but blocked by sediment- needs to be dug out. LS slide gate has some minor sediment built up against it. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Minor debris on landside inlet. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0189 for sediment and grass blocking WS and LS. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.43). USACE Sacramento O&M Manual 519, June 1962 (HLM 4.43), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 891+52E, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 12:26:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_54949\_66752.jpg



Overview of levee crown at crossing looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>4.35</b>	Rating **	M	Issue No.	<b>100 (cont)</b>
LM End	<b>4.35</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537516 °	39.537516 °
				-121.707580 °	-121.707580 °
DWR ID	16341				

Photo 2 of 3 : UCIP\_SP\_2020\_54949\_66753.jpg



View of WS slope and toe.

LM Start	<b>4.35</b>	Rating **	M	Issue No.	<b>100 (cont)</b>
LM End	<b>4.35</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54949\_66750.jpg



View of WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	101	
LM End	4.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.530220 °	39.530220 °	
				-121.707940 °	-121.707940 °	
DWR ID	16355					
Comment Code						
Inspector Comment						
DS_ID:16355 FS_ID:54950 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for this pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is submerged and appears to be half buried by sediment. LS slide gate is fully submerged on the edge of the rice field. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 No signs of burrowing activity on this inspection.04/18/2012 Burrow activity near crossing, burrow holes present on WS slope. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee 7.7 feet below the crown. Flap gate on the waterside (WS) end. Slide gate located on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.94). USACE Sacramento O&M Manual 519, June 1962 (HLM 4.94), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 865+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 12:28:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_54950\_66756.jpg



Overview of levee crown at crossing looking downstream at right bank of Cherokee Canal.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.85	Rating **	M	Issue No.	101 (cont)
LM End	4.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.530220 °	39.530220 °
				-121.707940 °	-121.707940 °
DWR ID	16355				

Photo 2 of 3 : UCIP\_SP\_2020\_54950\_66758.jpg



Burrow activity on WS slope.

LM Start	<b>4.85</b>	Rating **	M	Issue No.	<b>101 (cont)</b>
LM End	<b>4.85</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54950\_66755.jpg



View of WS flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>5.33</b>	Rating **	M	Issue No.	<b>102</b>
LM End	<b>5.33</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.523236 °	39.523236 °	
			-121.707650 °	-121.707650 °	

DWR ID	16356
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Comment Code
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Inspector Comment
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DS_ID:16356 FS_ID:54951 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this pipe. Pipe is scheduled to be lined. Minor sloughing observed on LS just immediately d/s of concrete headwall (see photo). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 LS screw gate was completely submerged and WS flap gate was propped open by a wood block but crossing appears to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Minor vegetation on LS slope. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0204 for restriction view of gates. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.43). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.43), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 839+50E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 12:29:00 PM
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Photo 1 of 3 : UCIP\_SP\_2020\_54951\_66762.jpg



Overview of levee crown at crossing looking D/S on right bank of Cherokee Canal.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.33	Rating **	M	Issue No.	102 (cont)
LM End	5.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.523236 °	39.523236 °
				-121.707650 °	-121.707650 °
DWR ID	16356				

Photo 2 of 3 : UCIP\_SP\_2020\_54951\_66760.jpg



WS Flap Gate

LM Start	<b>5.33</b>	Rating **	M	Issue No.	<b>102 (cont)</b>
LM End	<b>5.33</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54951\_66763.jpg



WS view of outlet cleared of vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>5.38</b>	Rating **	M	Issue No.	<b>103</b>
LM End	<b>5.38</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.522566 °	39.522566 °	
			-121.707560 °	-121.707560 °	
DWR ID	16357				

**Comment Code**

**Inspector Comment**

DS\_ID:16357  
FS\_ID:54952  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing this pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS flap gate is partially buried by sediment- needs to be dug out. LS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 WS flap gate closed but blocked from opening by sediment. (DWR Sutter Yard- AFreitag)04/28/2016 WS flap gate blocked from opening by sediment.07/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls an both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.48). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.48), listed as 24-inch pipe]  
FS Date: 8/26/2019 12:30:00 PM

LM Start	<b>5.38</b>	Rating **	M	Issue No.	<b>103 (cont)</b>
LM End	<b>5.38</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_54952\_66764.jpg



Overview of levee crown at crossing looking downstream.

Photo 2 of 3 : UCIP\_SP\_2020\_54952\_66765.jpg



View of WS slope and channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.38	Rating **	M	Issue No.	103 (cont)
LM End	5.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.522566 °	39.522566 °
				-121.707560 °	-121.707560 °
DWR ID	16357				

Photo 3 of 3 : UCIP\_SP\_2020\_54952\_66768.jpg



View of WS flap gate.

LM Start	5.42	Rating **	M	Issue No.	85
LM End	7.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.521961 °	39.494199 °
				-121.707579 °	-121.726292 °
DWR ID	DWR_MA0013_01_s _ 2020_85				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	5.60	Rating **	M	Issue No.	86
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.519606 °	39.494199 °
				-121.708557 °	-121.726292 °
DWR ID	DWR_MA0013_01_s _ 2020_86				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	107
LM End	5.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.519212 °	39.519212 °
				-121.709030 °	-121.709030 °
DWR ID	16359				

**Comment Code**

**Inspector Comment**

DS\_ID:16359  
FS\_ID:54957  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS Flap gate is completely buried- needs to be dug out. LS is blocked off by flashboards that are partially buried. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 WS still completely buried. (DWR Sutter Yard- A.Freitag)04/28/2016 WS gate and headwall are buried. Only the top of the headwall was visible. LS appeared ok.07/13/2015 Both the LS screw gate and WS flap gate are completely buried.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. WS headwall and flap gate are fully covered in debris and not visible. Need to clear.04/18/2012 High sedimentation build up at WS and LS headwall. Limited inspection due to dense vegetation on WS and LS slope. Need photo of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#  
USACE\_CESPK\_M13D\_2011\_p\_0210 for WS gate submerged.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.73). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.73), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 820+50E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/26/2019 12:38:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54957\_66793.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.63	Rating **	M	Issue No.	107 (cont)
LM End	5.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.519212 °	39.519212 °
				-121.709030 °	-121.709030 °
DWR ID	16359				

Photo 2 of 3 : UCIP\_SP\_2020\_54957\_66794.jpg



View of WS slope and toe.

LM Start	<b>5.63</b>	Rating **	M	Issue No.	<b>107 (cont)</b>
LM End	<b>5.63</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54957\_66791.jpg



View of WS flap gate buried.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.87	Rating **	M	Issue No.	108	
LM End	5.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.516059 °	39.516059 °	
				-121.710810 °	-121.710810 °	
DWR ID	16360					
Comment Code						
Inspector Comment						
DS_ID:16360 FS_ID:54958 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. LS is completely submerged in an irrigation ditch. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Burrow activity near crossing; burrow holes present on LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 6.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.97). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.97), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 808+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 12:40:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_54958\_66800.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>5.87</b>	Rating **	M	Issue No.	<b>108 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.516059 °	39.516059 °	
			-121.710810 °	-121.710810 °	
DWR ID	16360				

Photo 2 of 3 : UCIP\_SP\_2020\_54958\_66801.jpg



View of WS slope and toe.

LM Start	<b>5.87</b>	Rating **	M	Issue No.	<b>108 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54958\_66799.jpg



Flap gate WS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	109	
LM End	6.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.511337 °	39.511337 °	
				-121.713620 °	-121.713620 °	
DWR ID	16361					
Comment Code						
Inspector Comment						
DS_ID:16361 FS_ID:54959 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 WS appears to be in good condition. LS slide gate is buried and submerged. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/16/2016 LS screw gate is buried and non-operational. (DWR Sutter Yard- AFreitag)04/28/2016 LS screw gate is still completely buried. 07/13/2015 LS screw gate is completely buried.05/21/2014 Same as last inspection.07/15/2013 WS slope has been cleared of vegetation and is in good condition. LS screw gate is still buried.12/02/2013 Same as last inspection.04/18/2012 LS slide gate is buried. Pipe is not visible on LS toe. Limited inspection on WS slope due to dense vegetation. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.4 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 6.32). USACE Sacramento O&M Manual 519, June 1962 (HLM 6.34), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 789+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 12:41:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_54959\_66808.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.23	Rating **	M	Issue No.	109 (cont)
LM End	6.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.511337 °	39.511337 °
				-121.713620 °	-121.713620 °
DWR ID	16361				

Photo 2 of 3 : UCIP\_SP\_2020\_54959\_66806.jpg



View of WS slope and toe.

LM Start	<b>6.23</b>	Rating **	M	Issue No.	<b>109 (cont)</b>
LM End	<b>6.23</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54959\_66804.jpg



View of WS flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	6.99	Rating **	M	Issue No.	111
LM End	6.99	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.501479 °	39.501479 °	
			-121.719710 °	-121.719710 °	
DWR ID	16329				

**Comment Code**

**Inspector Comment**

DS\_ID:16329  
FS\_ID:54967  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/26/2019 Record remains Non-Urgent, due to no permit found authorizing pipe and maintenance issue. Pipe is scheduled to be lined. Slide gate detached and sitting on the side of concrete wingwall. Slide gate will need to be re-attached. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 LS slide gate is still damaged and needing to be replaced. WS appeared to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/16/2016 Needs a new screw gate installed on the LS. (DWR Sutter Yard- AFreitag)04/28/2016 LS slide gate is still bent. Everything else with the crossing appeared ok.07/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged.04/18/2012 LMA's inspection sheet of 2011 indicates settlement and visible corrosion. Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes for this crossing.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.10). USACE Sacramento O&M Manual 519, June 1962 (HLM 7.10), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 748+50E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/26/2019 12:59:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54967\_66833.jpg



Overview of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>6.99</b>	Rating **	M	Issue No.	<b>111 (cont)</b>
LM End	<b>6.99</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.501479 °	39.501479 °	
			-121.719710 °	-121.719710 °	
DWR ID	16329				

Photo 2 of 3 : UCIP\_SP\_2020\_54967\_66832.jpg



View of WS slope and toe.

LM Start	<b>6.99</b>	Rating **	M	Issue No.	<b>111 (cont)</b>
LM End	<b>6.99</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54967\_66837.jpg



WS Flap Gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	112
LM End	7.22	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.498845 °	39.498845 °	
			-121.722440 °	-121.722440 °	
DWR ID	16354				

**Comment Code**

**Inspector Comment**

DS\_ID:16354  
FS\_ID:56089  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/26/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 LS slide gate stem still bent. WS appeared to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Screw gate stem bent but gate is still operational. (DWR Sutter Yard- A.Freitag)04/28/2106 Tested positive closure device the bent stem on the slide gate did not seem to affect its functions. Gate operable.07/13/2015 LS screw gate stem is still bent. Gate should still be able to close fully. The rest of the crossing seems to be in good condition.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent.04/18/2012 LS slide gate stem is bent and needs to be replaced. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes during next inspection. Confirmed flap gate on WS. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE\_CESPK\_M13D\_2011\_p\_0244 for submerged WS gate. FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.34). USACE Sacramento O&M Manual 519, June 1962 (HLM 7.34), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 736+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/26/2019 1:02:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_56089\_66844.jpg



Overview of levee crown at crossing looking D/S.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.22	Rating **	M	Issue No.	112 (cont)
LM End	7.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.498845 °	39.498845 °
				-121.722440 °	-121.722440 °
DWR ID	16354				

Photo 2 of 3 : UCIP\_SP\_2020\_56089\_66845.jpg



View of WS slope and toe.

LM Start	<b>7.22</b>	Rating **	M	Issue No.	<b>112 (cont)</b>
LM End	<b>7.22</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56089\_66842.jpg



WS Flap Gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.46	Rating **	M	Issue No.	113
LM End	7.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.496146 °	39.496146 °
				-121.725160 °	-121.725160 °
DWR ID	16352				

**Comment Code**

**Inspector Comment**

DS\_ID:16352  
FS\_ID:54969  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 WS ditch is getting to be heavily vegetated but it is not yet affecting flap gate operation. Vegetation needs to be cleared back some.05/21/2014 Same as last inspection.12/02/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS) end. Concrete headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.58). USACE Sacramento O&M Manual 519, June 1962 (HLM 7.58), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 724+32E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/26/2019 1:03:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54969\_66853.jpg



View of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>7.46</b>	Rating **	M	Issue No.	<b>113 (cont)</b>
LM End	<b>7.46</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.496146 °	39.496146 °	
			-121.725160 °	-121.725160 °	
DWR ID	16352				

Photo 2 of 3 : UCIP\_SP\_2020\_54969\_66851.jpg



WS view of slope and channel.

LM Start	<b>7.46</b>	Rating **	M	Issue No.	<b>113 (cont)</b>
LM End	<b>7.46</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54969\_66849.jpg



View of WS flap gate. Dense vegetation on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	114	
LM End	7.64	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.493756 °	39.493756 °	
				-121.726570 °	-121.726570 °	
DWR ID	16320					
Comment Code						
Inspector Comment						
DS_ID:16320 FS_ID:56090 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/26/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. The following maintenance issues should be addressed: clear vegetation from LS inlet and repair CMP riser lid (safety measure). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Debris down inside of WS riser. The rest of the crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 The bottom of the entire pipe has about 8inch of sediment in it. Sediment is preventing the screw gate from fully closing. WS flap gate seems to be in good condition.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 9.9 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in corrugated metal pipe riser on the WS slope. Concrete "U" headwalls on both ends. Spillway grouted for 35 feet. [Additional Reference(s): DWR Levee Log, 1993 (HLM 7.76). USACE Sacramento O&M Manual 519, June 1962 (HLM 7.76), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 714+28E, page 19 of 28 electronic file, listed as 48-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/26/2019 1:06:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_56090\_66867.jpg



Overview of levee crown at crossing (past gate) looking D/S.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	7.64	Rating **	M	Issue No.	114 (cont)
LM End	7.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.493756 °	39.493756 °
				-121.726570 °	-121.726570 °
DWR ID	16320				

Photo 2 of 3 : UCIP\_SP\_2020\_56090\_66865.jpg



View of WS slope, corrugated metal riser with slide gate.

LM Start	<b>7.64</b>	Rating **	M	Issue No.	<b>114 (cont)</b>
LM End	<b>7.64</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56090\_66863.jpg



WS Slide gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	115	
LM End	8.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.489061 °	39.489061 °	
				-121.729430 °	-121.729430 °	
DWR ID	16321					
Comment Code						
Inspector Comment						
DS_ID:16321 FS_ID:54973 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears to be in good condition.  05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Sediment build up against flashboards. Flashboards are in use on landside of levee. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.11). USACE Sacramento O&M Manual 519, June 1962 (HLM 8.12), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 696+00E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/27/2019 2:07:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_54973\_66872.jpg



Overview of levee crown at crossing looking D/S.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	115 (cont)	
LM End	8.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.489061 °	39.489061 °	
				-121.729430 °	-121.729430 °	
DWR ID	16321					

Photo 2 of 3 : UCIP\_SP\_2020\_54973\_66873.jpg



View of WS slope and toe.

LM Start	<b>8.00</b>	Rating **	M	Issue No.	<b>115 (cont)</b>
LM End	<b>8.00</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54973\_66869.jpg



WS Flap gate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	116
LM End	8.27	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.485432 °	39.485432 °	
			-121.731590 °	-121.731590 °	
DWR ID	16322				

**Comment Code**

**Inspector Comment**

DS\_ID:16322

FS\_ID:54974

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Vegetation needs to be cleared from inlet/outlet. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Both sides of the crossing were buried with sediment- needs to be cleared away. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/16/2016 WS flap gate is closed but is blocked from opening by sediment. (DWR Sutter Yard- AFreitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes are cleared of vegetation and are in good condition. WS flap gate is blocked from opening fully by sediment.04/18/2012 Sediment build up on LS. Debris (broken panels) scattered near LS headwall. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared WS and LS slopes.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.40). USACE Sacramento O&M Manual 519, June 1962 (HLM 8.40), As-built DWG No. 50-4-3608, Sheet No. 3608/18, STA 681+30E, page 19 of 28 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]

FS Date: 8/27/2019 2:08:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54974\_66876.jpg



Overview of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.27	Rating **	M	Issue No.	116 (cont)
LM End	8.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.485432 °	39.485432 °
				-121.731590 °	-121.731590 °
DWR ID	16322				

Photo 2 of 3 : UCIP\_SP\_2020\_54974\_66874.jpg



View of WS slope and toe.

LM Start	<b>8.27</b>	Rating **	M	Issue No.	<b>116 (cont)</b>
LM End	<b>8.27</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54974\_66877.jpg



View of WS flap gate and headwall.

LM Start	8.66	Rating **	M	Issue No.	84
LM End	9.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.480274 °	39.467473 °
				-121.734687 °	-121.743707 °
DWR ID	DWR_MA0013_01_s_2020_84				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.81	Rating **	M	Issue No.	63
LM End	9.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.478730 °	39.467473 °
				-121.736412 °	-121.743705 °
DWR ID	DWR_MA0013_01_s_2020_63				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	8.81	Rating **	M	Issue No.	49
LM End	8.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.478648 °	39.478648 °
				-121.736477 °	-121.736477 °
DWR ID	DWR_MA0013_01_f _ 2016_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_300\_49\_20200226\_00007.jpg



View of the erosion site along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>8.84</b>	Rating **	M	Issue No.	<b>120</b>
LM End	<b>8.84</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.478281 °	39.478281 °	
			-121.736780 °	-121.736780 °	

DWR ID	16325
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Comment Code
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Inspector Comment
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DS_ID:16325 FS_ID:54978 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Spoke to Richvalle Irrigation District manager and he mentioned that this structure is not theirs. He recommended that LMA-Sutter Yard break lock to access crossing. Crossing appears to fit general configuration for drainage structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/27/2019 No permit has been found authorizing this structure. Need to find owner. Originally assigned to LMA-Sutter Yard however, unknown locks on WS slide gates. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Debris drifts built up around the WS slide gates-needs to be cleared away. LS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 LS slope has been sprayed and cleared of vegetation and is in good condition.04/18/2012 Limited inspection on LS slope due to dense vegetation. Need photo of cleared vegetation from slopes and WS headwall. Minor debris scattered on WS slope. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe angled through the levee, 12.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate on the WS end. Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 8.98). USACE Sacramento O&M Manual 519, June 1962 (HLM 8.98), As-built DWG No. 50-4-3608, Sheet No. 3608/18, 20, STA 648+55.16E, page 19, 21 of 28 electronic file, listed as 24-inch CMP] FS Date: 8/27/2019 2:11:00 PM
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Photo 1 of 3 : UCIP\_SP\_2020\_54978\_66895.jpg



Overview of levee crown at crossing looking D/S.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.84	Rating **	M	Issue No.	120 (cont)
LM End	8.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.478281 °	39.478281 °
				-121.736780 °	-121.736780 °
DWR ID	16325				

Photo 2 of 3 : UCIP\_SP\_2020\_54978\_66897.jpg



View of WS slope with 2 slide gates.

LM Start	<b>8.84</b>	Rating **	M	Issue No.	<b>120 (cont)</b>
LM End	<b>8.84</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54978\_66900.jpg



View of slide gate on WS. Debris blocking gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	124
LM End	8.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.476839 °	39.476839 °
				-121.737540 °	-121.737540 °
DWR ID	16317				

**Comment Code**

**Inspector Comment**

DS\_ID:16317  
FS\_ID:54982  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/14/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 LS inlet has minor vegetation still. WS appears in good condition.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID# USACE\_CESPK\_M13D\_2011\_p\_0278 for WS outlet sedimentation and sediment/grass at LS inlet.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. Flashboards should be present on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 9.09). USACE Sacramento O&M Manual 519, June 1962 (HLM 9.09), As-built DWG No. 50-4-3511, Sheet No. 3511/28.2, STA 644+50E listed under Right Bank should be STA 644+50W, page 28 of 31 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/27/2019 2:13:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54982\_66910.jpg



Overview of levee crown at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	8.95	Rating **	M	Issue No.	124 (cont)
LM End	8.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.476839 °	39.476839 °
				-121.737540 °	-121.737540 °
DWR ID	16317				

Photo 2 of 3 : UCIP\_SP\_2020\_54982\_66911.jpg



View of WS slope and toe.

LM Start	<b>8.95</b>	Rating **	M	Issue No.	<b>124 (cont)</b>
LM End	<b>8.95</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54982\_66912.jpg



View of LS slope and toe.

LM Start	9.70	Rating **	C	Issue No.	5
LM End	9.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.467170 °	39.466860 °
				-121.743887 °	-121.744108 °
DWR ID	DWR_MA0013_01_s_2012_5				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.75	Rating **	M	Issue No.	64
LM End	9.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.466478 °	39.466478 °
				-121.744338 °	-121.744338 °
DWR ID	DWR_MA0013_01_f_2016_64				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	9.85	Rating **	M	Issue No.	82
LM End	15.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.465156 °	39.397689 °
				-121.745091 °	-121.812640 °
DWR ID	DWR_MA0013_01_s_2020_82				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	9.86	Rating **	M	Issue No.	83
LM End	15.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.465077 °	39.399376 °
				-121.745154 °	-121.810034 °
DWR ID	DWR_MA0013_01_s_2020_83				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	11.03	Rating **	M	Issue No.	126
LM End	11.03	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.449886 °	39.449886 °	
			-121.755050 °	-121.755050 °	
DWR ID	16332				

**Comment Code**

**Inspector Comment**

DS\_ID:16332  
FS\_ID:54990  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee canal is diverted about 900 feet upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/16/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 60-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends and weir in channel. Crossing is used as an irrigation turnout. [Additional Reference(s): DWR Levee Log, 1993 (HLM 11.21). USACE Sacramento O&M Manual 519, June 1962 (HLM 11.21), As-built DWG No. 50-4-3511, Sheet No. 3511/10.3, STA 534+52E, page 10 of 31 electronic file, listed as 60-inch CMP through the levee; As-built DWG No. 50-4-3037 and DWG No. 50-4-3511 sht 3511/28 referenced not available]  
FS Date: 8/27/2019 2:16:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54990\_66926.jpg



View of WS corrugated metal riser and concrete wall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>11.03</b>	Rating **	M	Issue No.	<b>126 (cont)</b>
LM End	<b>11.03</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.449886 °	39.449886 °
				-121.755050 °	-121.755050 °
DWR ID	16332				

Photo 2 of 3 : UCIP\_SP\_2020\_54990\_66925.jpg



Corrugated metal riser with owner information.

LM Start	<b>11.03</b>	Rating **	M	Issue No.	<b>126 (cont)</b>
LM End	<b>11.03</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54990\_66928.jpg



Trash rack on WS headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	11.60	Rating **	M	Issue No.	127
LM End	11.60	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.442639 °	39.442639 °
				-121.760070 °	-121.760070 °
DWR ID	16333				

**Comment Code**

**Inspector Comment**

DS\_ID:16333  
FS\_ID:54989  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 60-inch corrugated metal drainage pipe angled through the levee, 11.3 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on both ends. Crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 145). [Additional Reference(s): DWR Levee Log, 1993 (HLM 11.78). USACE Sacramento O&M Manual 519, June 1962 (HLM 11.78), listed as 60-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 28.2, STA 504+71E, page 9, 28 of 31 electronic file, As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/27/2019 2:16:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54989\_66934.jpg



Overview of levee crown at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>11.60</b>	Rating **	M	Issue No.	<b>127 (cont)</b>
LM End	<b>11.60</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.442639 °	39.442639 °	
			-121.760070 °	-121.760070 °	
DWR ID	16333				

Photo 2 of 3 : UCIP\_SP\_2020\_54989\_66932.jpg



WS slide gate with owner information.

LM Start	<b>11.60</b>	Rating **	M	Issue No.	<b>127 (cont)</b>
LM End	<b>11.60</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54989\_66930.jpg



Trash rack on WS headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	128
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.435169 °	39.435169 °	
			-121.765290 °	-121.765290 °	
DWR ID	16334				

**Comment Code**

**Inspector Comment**

DS\_ID:16334  
FS\_ID:56091  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing this crossing. Irrigation siphon crosses under Cherokee Canal and Unit 2 levee at DSID 16385. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 WS pipe end still unknown- try to locate using GPR/ utility locator. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Cannot locate the WS pipe end. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition but could not locate the WS pipe end.07/13/2015 New screw gate installed inside the WS standpipe. 05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe.04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylights after WS slope is cleared.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal siphon pipe through the levee, 11 feet below the crown. Pipe size changes from 30-inch pipe through levee to a 24-inch pipe underneath the canal. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.35). USACE Sacramento O&M Manual 519, June 1962 (HLM 12.37), listed as 30-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 24.1, STA 473+86E, page 9, 24.1 of 31 electronic file, listed as combination of new 30-inch section pipe through the levee and existing 24-inch concrete siphon pipe through the channel (Keller Siphon structure, irrigation facilities); As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/27/2019 2:17:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_56091\_66940.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	128 (cont)
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.435169 °	39.435169 °	
			-121.765290 °	-121.765290 °	
DWR ID	16334				

Photo 2 of 3 : UCIP\_SP\_2020\_56091\_66936.jpg



View of Ws slope and channel.

LM Start	12.19	Rating **	M	Issue No.	128 (cont)
LM End	12.19	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56091\_66939.jpg



Slide gate located on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	129							
LM End	12.19	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP LMA Responsibility		39.435152 °	39.435152 °								
			-121.765300 °	-121.765300 °								
DWR ID	16335											
Comment Code												
Inspector Comment												
DS_ID:16335 FS_ID:54993 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/28/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 LS slope has been cleared of vegetation and is in good condition.04/18/2012 Limited inspection on LS slope due to dry vegetation. Need photos of cleared LS slope. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 144). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.36). USACE Sacramento O&M Manual 519, June 1962 (HLM 12.38), listed as 36-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, STA unk, page 9 of 31 electronic file, As-built DWG No. 50-4-3037 referenced not available] FS Date: 8/27/2019 2:17:00 PM												

Photo 1 of 3 : UCIP\_SP\_2020\_54993\_66949.jpg



Overview of levee crown at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

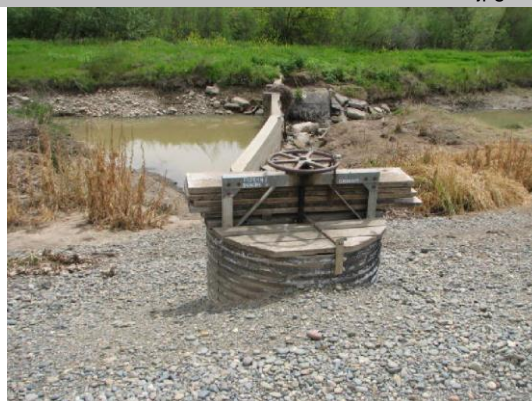
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.19	Rating **	M	Issue No.	129 (cont)
LM End	12.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.435152 °	39.435152 °
				-121.765300 °	-121.765300 °
DWR ID	16335				

Photo 2 of 3 : UCIP\_SP\_2020\_54993\_66947.jpg



View from levee crown of WS slope and channel.

LM Start	<b>12.19</b>	Rating **	M	Issue No.	<b>129 (cont)</b>
LM End	<b>12.19</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54993\_66948.jpg



Water side screw gate located near crown hinge

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.74	Rating **	M	Issue No.	130
LM End	12.74	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.428070 °	39.428070 °	
			-121.770080 °	-121.770080 °	
DWR ID	16336				

**Comment Code**

**Inspector Comment**

DS\_ID:16336  
FS\_ID:54994  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing and slide gate is still missing from the WS CMP riser. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Slide gate still missing from inside of WS standpipe. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Slide gate still missing from inside the WS standpipe. (DWR Sutter Yard- A.Freitag)04/28/2016 Slide gate was removed from inside the WS standpipe.07/13/2015 New screw gate installed on the WS pipe end in the irrigation ditch.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Irrigation turnout. Not in use during April 2012 Inspection. During the follow up May 2012 Inspection structure was being used as irrigation turnout, reason for barcode tags. FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.7 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. This crossing is used as an irrigation turnout bar code plate located on the WS slide gate (identified as 141 and 142). [Additional Reference(s): DWR Levee Log, 1993 (HLM 12.94). USACE Sacramento O&M Manual 519, June 1962 (HLM 12.94), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, STA 444+29E, page 8 of 31 electronic file, listed as 30-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/27/2019 2:18:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54994\_66952.jpg



Overview picture looking south on right bank of Cherokee Canal.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	12.74	Rating **	M	Issue No.	130 (cont)
LM End	12.74	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.428070 °	39.428070 °	
			-121.770080 °	-121.770080 °	
DWR ID	16336				

Photo 2 of 3 : UCIP\_SP\_2020\_54994\_66959.jpg



View of WS slope.

LM Start	12.74	Rating **	M	Issue No.	130 (cont)
LM End	12.74	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54994\_66951.jpg



Slide gate located on WS slope. Owner information marked on gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.33	Rating **	M	Issue No.	131
LM End	13.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.420667 °	39.420667 °
				-121.775700 °	-121.775700 °
DWR ID	16337				

**Comment Code**

**Inspector Comment**

DS\_ID:16337  
FS\_ID:54996  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing the dual purpose of this crossing. Crossing is used as an irrigation turnout. Flow from Cherokee Canal is diverted upstream by weir and feed into an irrigation canal that runs parallel along WS levee toe for about 2.5 miles. The irrigation turnout is used to divert water from WS irrigation canal to LS. Need to update crossing type from Drainage to Other. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Ws pipe end was submerged but crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 New screw gate installed inside of WS standpipe.05/21/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.1 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.53). USACE Sacramento O&M Manual 519, June 1962 (HLM 13.53), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, 31.2, STA 359+08W, page 8, 31 of 31 electronic file, listed as 24-inch CMP pipe through the levee; As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/27/2019 2:19:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54996\_66966.jpg



Overview of levee crown at crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.33	Rating **	M	Issue No.	131 (cont)
LM End	13.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.420667 °	39.420667 °
				-121.775700 °	-121.775700 °
DWR ID	16337				

Photo 2 of 3 : UCIP\_SP\_2020\_54996\_66963.jpg



View of WS slope.

LM Start	<b>13.33</b>	Rating **	M	Issue No.	<b>131 (cont)</b>
LM End	<b>13.33</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54996\_66967.jpg



View of WS slope and channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.76	Rating **	M	Issue No.	132
LM End	13.76	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.416833 °	39.416833 °	
			-121.781930 °	-121.781930 °	

DWR ID 16338

#### Comment Code

#### Inspector Comment

DS\_ID:16338

FS\_ID:54997

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 WS flap gate has been replaced. LS outlet still has a lot of vegetation, but overall levee integrity looks good at time of this inspection.

Downgrading to Non-Urgent from Urgent due to fixed flap gate and current levee condition (D. Sanoski - DWR UCIP).06/15/2017 Not abandoned- WS flap gate was dug out and opened draining water from the LS ditch. WS flap gate is heavily corroded and has a broken hinge- needs to be replaced. LS is still very overgrown and needs to be cleared. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Appears abandoned. WS flap gate completely silted over and LS screw gate is completely overgrown by a tree and is not accessible for inspection. (DWR Sutter Yard- A.Freitag)05/03/2016 Crossing appears to be abandoned. WS flap gate was completely silted over and LS slide gate is very overgrown by a tree.07/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutback.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Tree has fallen at LS inlet and damaged slide gate. The tree needs to be removed and screw gate repaired. Limited inspection on LS due to fallen tree.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe angled through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwall on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.96). USACE Sacramento O&M Manual 519, June 1962 (HLM 13.96), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact page, STA 336+56W, page 7 of 31 electronic file, listed as 24-inch CMP]  
FS Date: 8/27/2019 2:19:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54997\_66970.jpg



WS headwall and flap gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>13.76</b>	Rating **	M	Issue No.	<b>132 (cont)</b>
LM End	<b>13.76</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.416833 °	39.416833 °	
			-121.781930 °	-121.781930 °	
DWR ID	16338				

Photo 2 of 3 : UCIP\_SP\_2020\_54997\_66971.jpg



View of channel at crossing.

LM Start	<b>13.76</b>	Rating **	M	Issue No.	<b>132 (cont)</b>
LM End	<b>13.76</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54997\_66969.jpg



Tree fallen at LS headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.77	Rating **	M	Issue No.	133
LM End	13.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.416756 °	39.416756 °
				-121.782060 °	-121.782060 °
DWR ID	16339				

**Comment Code**

**Inspector Comment**

DS\_ID:16339  
FS\_ID:54998  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record remains Non-Urgent, crossing has been abandoned. Need to update crossing type from Drainage to Irrigation. Crossing was used as a irrigation line and not drainage. This crossing is not maintained or operated by LMA-Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Abandoned- still only the structure on the WS shoulder found. (DWR Sutter Yard- A.Freitag)11/17/2016 Abandoned. (DWR Sutter Yard- A.Freitag)05/03/2016 ABANDONED CROSSING07/13/2015 Abandoned crossing. Slide gate is buried on the WS.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 Non-functional crossing-buried slide gate on WS. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photo of cleared WS & LS slopes or toe. This crossing is listed in the USACE periodic inspection report as Corp's Inspection ID# USACE\_CESPK\_M13D\_2011\_p\_0352 for abandoned gate on WS slope.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 12-inch steel irrigation pipe through the levee, 3 feet below the crown. Gate valve on the waterside (WS) slope. 0.25-inch steel plate welded on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.97). USACE Sacramento O&M Manual 519, June 1962 (HLM 13.97), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact page and 24.1, STA 334+60W, page 7, 24 of 31 electronic file, listed as 12-inch steel pipe with welded 1/4-inch steel plate on both ends of the pipe (WS and LS)]  
FS Date: 8/27/2019 2:20:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_54998\_66972.jpg



Buried slide gate on the WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	13.77	Rating **	M	Issue No.	133 (cont)
LM End	13.77	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.416756 °	39.416756 °	
			-121.782060 °	-121.782060 °	
DWR ID	16339				

Photo 2 of 3 : UCIP\_SP\_2020\_54998\_66973.jpg



View of LS slope and toe. Unable to find welded plate on LS.

LM Start	13.77	Rating **	M	Issue No.	133 (cont)
LM End	13.77	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54998\_80558.jpg



WS view: pipe section capped off on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>14.58</b>	Rating **	U	Issue No.	<b>134</b>
LM End	<b>14.58</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.409481 °	39.409481 °	
			-121.794010 °	-121.794010 °	
DWR ID	16368				

**Comment Code**

**Inspector Comment**

DS\_ID:16368

FS\_ID:54999

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 08/27/2019 Record remains Urgent due to pipe integrity and levee integrity issues. Previously noted holes on the pipe collar located at WS have been sealed using splash zone epoxy. Two holes (possible sink holes) were observed behind WS concrete headwall. Recommend internal inspection of pipe through levee to determine if sink holes are attributed to holes in pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)08/23/2018 WS pipe unable to be inspected due to heavy vegetation at inlet, so assume same as last inspection. Noticed a long crack a couple feet above WS headwall that could be of concern; possible future slough if soil gets saturated during next high water event and could be a sign of internal pipe degradation. LS outlet and slope looked good. Urgent due to long crack, obstructed inspection view of WS inlet, and 2016 photos of holes in pipe (D. Sanoski - DWR UCIP).06/15/2017 WS pipe end still showing heavy signs of corrosion and deterioration with visible holes between the concrete headwall and flap gate flange. Pipe was almost 100% full of water so could not visually inspect inside of the pipe to see if theres any damage inside of the levee segment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Top of pipe on WS still showing heavy signs of corrosion with visible holes between the flap gate flange and the concrete headwall. The pipe was mostly underwater so could not internally inspect it for more damage or corrosion. (DWR Sutter Yard- A.Freitag)05/03/2016 Top of the pipe on the WS has holes in it between the flap gate flange and headwall. Crossing is showing signs of rust and deterioration but it was mostly underwater so could not inspect the inside of the pipe. (DWR Sutter Yard - afreitag)07/13/2015 Both sides of crossing were underwater at the time of inspection. (DWR Sutter Yard - afreitag)05/22/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/03/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/15/2013 Slopes have been cleared of vegetation and are in good condition. WS flap gate is still lodged open. (DWR Sutter Yard - afreitag)04/18/2012 Limited inspection on LS slope due to dense vegetation. Need photos of cleared WS & LS slopes. The flap gate is lodged open. (DWR UCIP - omagana)

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 14.79). USACE Sacramento O&M Manual 519, June 1962 (HLM 14.79), As-built DWG No. 50-4-3511, Sheet No. 3511/7. unable to read exact

Photo 1 of 3 : UCIP\_SP\_2020\_54999\_66976.jpg



Headwall and flapgate located on water side of levee

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

page, STA 293+17W, page 7 of 31 electronic file, listed as 36-inch CMP]

FS Date: 8/27/2019 2:20:00 PM

LM Start	<b>14.58</b>	Rating **	U	Issue No.	<b>134 (cont)</b>
LM End	<b>14.58</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2020\_54999\_66974.jpg



Headwall and flapgate located on water side of levee

LM Start	<b>14.58</b>	Rating **	U	Issue No.	<b>134 (cont)</b>
LM End	<b>14.58</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_54999\_66975.jpg



Head wall and screw gate located on land side of levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	14.91	Rating **	M	Issue No.	135
LM End	14.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.406570 °	39.406570 °
				-121.798770 °	-121.798770 °
DWR ID	16367				
Comment Code					
Inspector Comment					
DS_ID:16367 FS_ID:55000 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Slopes have been cleared of vegetation and are in good condition.04/18/2012 Limited inspection on WS and LS slope due to dense vegetation. Need overall photo of crossing and photos of cleared WS & LS slopes. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 15.12). USACE Sacramento O&M Manual 519, June 1962 (HLM 15.12), As-built DWG No. 50-4-3511, Sheet No. 3511/6. unable to read exact page, STA 276+00W, page 6 of 31 electronic file, listed as 36-inch CMP; As-built DWG No. 50-4-3037 referenced not available] FS Date: 8/27/2019 2:21:00 PM					

Photo 1 of 3 : UCIP\_SP\_2020\_55000\_66981.jpg



WS headwall and flapgate

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>14.91</b>	Rating **	M	Issue No.	<b>135 (cont)</b>
LM End	<b>14.91</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.406570 °	39.406570 °	
			-121.798770 °	-121.798770 °	
DWR ID	16367				

Photo 2 of 3 : UCIP\_SP\_2020\_55000\_66980.jpg



Slide gate located on LS toe. Dense vegetation present on LS slope.

LM Start	<b>14.91</b>	Rating **	M	Issue No.	<b>135 (cont)</b>
LM End	<b>14.91</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55000\_66982.jpg



WS slope cleared of vegetation

LM Start	15.58	Rating **	M	Issue No.	57
LM End	15.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.400380 °	39.400380 °
				-121.808432 °	-121.808432 °
DWR ID	DWR_MA0013_01_f _ 2016_57				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_300\_57\_20200226\_00008.jpg



View of slope instability along the landside slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	138	
LM End	16.19	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.394748 °	39.394748 °	
				-121.817360 °	-121.817360 °	
DWR ID	16372					
Comment Code						
Inspector Comment						
DS_ID:16372 FS_ID:56094 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/27/2019 Structure is referenced in Permit Number 11805. Need to pull permit to review details. Need to update structure description to reference correct permit. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 Crossing appears in good condition. No noticeable issues to report.05/22/2014 Same as last inspection.12/03/2013 Same as last inspection.07/15/2013 Same as last inspection.04/18/2012 The structures are closed with metal stop logs (weir type structure). The stop logs appear to be removable, however; there is a wooden bridge over the structure that would have to be removed in order to raise the stop logs. There is 1-foot of clearance between the bottom of the bridge and the top of the stop logs. FIELD_STRUCT_DESC: Two 10-foot by 10-foot concrete drain openings through the levee at an unknown depth below the crown. Wooden bridge, 10 ton load limit. [Additional Reference(s): DWR Levee Log, 1993 (HLM 16.43). USACE Sacramento O&M Manual 519, June 1962 (HLM 16.43), listed as two 9.9-foot by 9.7-foot concrete conduits, As-built DWG No. 50-4-3511, Sheet No. 3511/27.1, STA 208+02W, page 27 of 31 electronic file, listed as drainage structure] FS Date: 8/27/2019 2:23:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_56094\_74500.jpg



WS view of structure.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.19	Rating **	M	Issue No.	138 (cont)
LM End	16.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.394748 °	39.394748 °
				-121.817360 °	-121.817360 °
DWR ID	16372				

Photo 2 of 3 : UCIP\_SP\_2020\_56094\_74503.jpg



View of crossing and panels attached to concrete walls.

LM Start	<b>16.19</b>	Rating **	M	Issue No.	<b>138 (cont)</b>
LM End	<b>16.19</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56094\_74501.jpg



LS view of structure

LM Start	16.52	Rating **	M	Issue No.	56
LM End	16.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.391675 °	39.391675 °
				-121.821932 °	-121.821932 °
DWR ID	DWR_MA0013_01_f_2016_56				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	16.96	Rating **	M	Issue No.	81
LM End	18.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.387644 °	39.373427 °
				-121.828223 °	-121.850438 °
DWR ID	DWR_MA0013_01_s_2020_81				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_300\_81\_20200415\_00182.jpg



View of the vegetation along the waterside slope. Spring 2020.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	142
LM End	17.23	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.385172 °	39.385172 °	
			-121.832060 °	-121.832060 °	
DWR ID	16369				

**Comment Code**

**Inspector Comment**

DS\_ID:16369  
FS\_ID:55006  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/27/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/15/2017 Flap gate bolted shut. Hinges seem very stiff to operate as gate will not fully close and has about a 1/2" gap near the top. Land owner claims the gate leaks during high water times. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)05/03/2016 Crossing appears to be in good condition.07/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.05/22/2014 Same as last inspection.12/03/2013 Sediment was dug out from WS flap gate allowing it to open.07/15/2013 Slopes have been sprayed and cleared of vegetation and are in good condition. WS flap gate is blocked from opening by sediment buildup.04/18/2012 Limited inspection on WS and LS slope due to dense vegetation and steep slopes. Need photos of cleared WS & LS slopes.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 8.1 feet below the crown. Flap gate on the waterside (WS). Concrete "U" headwalls on both WS and landside (LS).  
[Additional Reference(s): DWR Levee Log, 1993 (HLM 17.47). USACE Sacramento O&M Manual 519, June 1962 (HLM 17.47), As-built DWG No. 50-4-3511, Sheet No. 3511/26.2, STA 153+84W, page 26 of 31 electronic file, listed as 24-inch CMP pipe through the levee (drainage structure); As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/27/2019 2:25:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55006\_67017.jpg



View of WS slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.23	Rating **	M	Issue No.	142 (cont)
LM End	17.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.385172 °	39.385172 °
				-121.832060 °	-121.832060 °
DWR ID	16369				

Photo 2 of 3 : UCIP\_SP\_2020\_55006\_67019.jpg



View of WS headwall and flap gate.

LM Start	17.23	Rating **	M	Issue No.	142 (cont)
LM End	17.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55006\_67018.jpg



View of LS headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>0.05</b>	Rating **	M	Issue No.	<b>912</b>
LM End	<b>0.05</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.573816 °	39.573816 °	
			-121.701290 °	-121.701290 °	

DWR ID	16397
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Comment Code
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Inspector Comment
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DS_ID:16397
FS_ID:55415
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found

UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/18/2016 Crossing appears to be in good condition. 4inch pipe still present on LS but it does not affect the function of the crossing. (DWR Sutter Yard- AFreitag)09/27/2016 Crossing has been downgraded from Urgent to Non-Urgent--sleeved pipe does not prevent flap gate from closing on WS. Still need to coordinate with owner to remove sleeved pipe through existing crossing per Title 23. (DWR UCIP - omagana)04/27/2016 Crossing appears to be in good condition. 4 inch pipe is still present in LS opening but does not go all the way through to the WS. (DWR Sutter Yard - afreitag)07/01/2015 Crossing appears in good condition. No noticeable issues to report. (DWR Sutter Yard - afreitag)05/29/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/09/2013 4in. Pipe was removed and flap gate is closed and ready for high water. (DWR Sutter Yard - afreitag)07/10/2013 Same as last inspection. Urgency rating carry over from last entry. (DWR Sutter Yard - afreitag)04/19/2012 4-6 inch pipe is not part of original crossing--remove pipe. WS-pipe stockpile on WS slope. LS-Overgrown branches limit inspection. This crossing was listed in the USACE Periodic Inspection report listed as Corp's Inspect ID# USACE\_CESPK\_M13G\_2011\_p\_0009 for WS flap gate not functioning properly as irrigation pipe passes inside crossing. (DWR UCIP - omagana)

FIELD\_STRUCT\_DESC: 24-inch CIPP-lined corrugated metal drainage pipe through the levee, 6 feet below the crown. Concrete "U" headwalls on both WS and landside (LS). Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 0.04). USACE Sacramento O&M Manual 519, June 1962 (HLM 0.04), listed as 24-inch pipe].

FS Date: 8/28/2019 12:55:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55415\_45640.jpg



Overview looking south on left levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>0.05</b>	Rating **	M	Issue No.	<b>912 (cont)</b>
LM End	<b>0.05</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.573816 °	39.573816 °	
			-121.701290 °	-121.701290 °	
DWR ID	16397				

Photo 2 of 3 : UCIP\_SP\_2020\_55415\_45642.jpg



Headwall and flap gate on WS. Soil and pipes stockpiled next to headwall.

LM Start	<b>0.05</b>	Rating **	M	Issue No.	<b>912 (cont)</b>
LM End	<b>0.05</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55415\_45643.jpg



LS headwall blocked by overgrown branches.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>0.58</b>	Rating **	M	Issue No.	<b>913</b>
LM End	<b>0.58</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.566479 °	39.566479 °	
			-121.702430 °	-121.702430 °	
DWR ID	16398				

**Comment Code**

**Inspector Comment**

DS\_ID:16398

FS\_ID:55970

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe and modifications. Structure type has been changed from drainage to irrigation. Mr. Sohnrey property owner mentioned that this pipe is being used as irrigation line. DMP phase 1 internal inspection did not show any major defects through the section inspected (about 30 feet). (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS ditch at outlet is getting over grown with vegetation. WS near concrete standpipe is overgrown with vegetation. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/18/2016 Between the screw gate on the WS shoulder and the LS pipe end the pipe is about 50% full of soil. Crossing is still actively used by landowner for irrigation purposes. (DWR Sutter Yard-AFreitag)04/27/2016 Pipe gets used by the landowner to irrigate his rice fields. It appeared to be in good condition.07/01/2015 LS pipe end is still about 50% full of sediment.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken.04/19/2012 Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal irrigation pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). 36-inch concrete standpipe in the channel (located about 80 feet from levee toe) with two wooden piles to deflect debris. [Additional Reference(s): DWR Levee Log, 1993 (HLM 0.57). USACE Sacramento O&M Manual 519, June 1962 (HLM 0.57), listed as 24-inch pipe]

FS Date: 8/28/2019 1:25:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55970\_67047.jpg



Overview looking south

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	0.58	Rating **	M	Issue No.	913 (cont)
LM End	0.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.566479 °	39.566479 °
				-121.702430 °	-121.702430 °
DWR ID	16398				

Photo 2 of 3 : UCIP\_SP\_2020\_55970\_67048.jpg



View of WS slope and toe.

LM Start	<b>0.58</b>	Rating **	M	Issue No.	<b>913 (cont)</b>
LM End	<b>0.58</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55970\_67045.jpg



Screw gate located on WS of levee. Screw gate covers needs to be repaired.

LM Start	0.70	Rating **	M	Issue No.	86	
LM End	1.60	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.564675 °		39.552131 °
				-121.702382 °		-121.704779 °
DWR ID	DWR_MA0013_02_s_2020_86					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.67	Rating **	M	Issue No.	85
LM End	1.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.551368 °	39.548161 °
				-121.705344 °	-121.706047 °
DWR ID	DWR_MA0013_02_s _ 2020_85				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_301\_85\_20200415\_00178.jpg



View of the vegetation along the landside slope. Spring 2020.

LM Start	1.67	Rating **	M	Issue No.	87
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.551368 °	39.542429 °
				-121.705344 °	-121.706062 °
DWR ID	DWR_MA0013_02_s _ 2020_87				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	1.70	Rating **	M	Issue No.	915
LM End	1.70	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.551178 °	39.551178 °	
			-121.705660 °	-121.705660 °	
DWR ID	16399				

**Comment Code**

**Inspector Comment**

DS\_ID:16399  
FS\_ID:55416  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS slide gate stem is bent and the gate appears as if it will not open. LS inlet is becoming heavily vegetated next to rice field. WS flap gate is blocked shut by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 LS screw gate still bent and in-operable. (DWR Sutter Yard- A.Freitag)04/27/2016 LS screw gate is still bent. Rest of crossing appeared in good condition.07/01/2015 LS screw gate frame is still twisted and hindering the gate from opening.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening.04/19/2012 Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE\_CESPK\_M13G\_2011\_p\_0108 for WS flap gate filled with soil and LS gate not functioning because of overgrown vegetation.  
FIELD\_STRUCT\_DESC: 24-inch CIPP-lined corrugated metal drainage pipe through the levee, 7.9 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate at the LS toe in headwall. In 1962, permit number 3953 was issue for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. (existing water transfer ditch and pump authorized under Permit No. 3953, 1960 - Dr. John O. Gibbs, DBA Empire Land Company, electronic permit page 12 of 22, "The pipe was installed through the levee by the Corps of Engineers during construction of the levee. The pipe was installed as a drainage pipe and is equipped with a slide gate on the landward end and a flap gate on the waterward end.") [Additional Reference(s): DWR Levee Log, 1993 (HLM 1.67). USACE Sacramento O&M Manual 519, June 1962 (HLM 1.70), listed as 24-inch pipe]  
FS Date: 8/28/2019 1:25:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55416\_67059.jpg



Overview of crossing

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>1.70</b>	Rating **	M	Issue No.	<b>915 (cont)</b>
LM End	<b>1.70</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.551178 °	39.551178 °
				-121.705660 °	-121.705660 °
DWR ID	16399				

Photo 2 of 3 : UCIP\_SP\_2020\_55416\_67058.jpg



View of flap gate on WS.

LM Start	<b>1.70</b>	Rating **	M	Issue No.	<b>915 (cont)</b>
LM End	<b>1.70</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55416\_67057.jpg



View of WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	916
LM End	2.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.539195 °	39.539195 °
				-121.706070 °	-121.706070 °
DWR ID	16400				
Comment Code					
Inspector Comment					
DS_ID:16400 FS_ID:56150 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 LS inlet was underwater. WS flap gate blocked shut by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/18/2016 Sediment dug out from in front of flap gate. Gate can now function properly. (DWR Sutter Yard- AFreitag)4/27/2016 WS flap gate still blocked from opening by sediment buildup.7/01/2015 New screw gate installed on the LS. WS flap gate is still blocked from opening by sediment.5/29/2014 Same as last inspection.12/9/2013 Same as last inspection.7/10/2013 Sediment is built up against WS flap gate not allowing it to open. Handle for LS slide gate is still missing.4/19/2012 Handle missing on slide gate. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.53). USACE Sacramento O&M Manual 519, June 1962 (HLM 2.54), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 899+10E LT BK, page 20 of 28 electronic file, listed as two 36-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/28/2019 1:09:00 PM					

Photo 1 of 3 : UCIP\_SP\_2020\_56150\_67063.jpg



Overview of levee crown looking south

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>916 (cont)</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.539195 °	39.539195 °	
			-121.706070 °	-121.706070 °	
DWR ID	16400				

Photo 2 of 3 : UCIP\_SP\_2020\_56150\_67068.jpg



View of WS slope.

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>916 (cont)</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56150\_67064.jpg



Headwall and flap gates (2) located on WS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.53	Rating **	M	Issue No.	917	
LM End	2.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.539179 °		39.539179 °
				-121.706060 °		-121.706060 °
DWR ID	17169					
Comment Code						
Inspector Comment						
DS_ID:17169 FS_ID:56095 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS inlet was underwater. WS appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.07/01/2015 New screw gate installed on the LS. WS appears to be in good condition.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 9.7 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.53). USACE Sacramento O&M Manual 519, June 1962 (HLM 2.54), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 899+10E LT BK, page 20 of 28 electronic file, listed as two 36-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/28/2019 1:11:00 PM						

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>917 (cont)</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_56095\_67075.jpg



Overview at levee crown looking south

Photo 2 of 3 : UCIP\_SP\_2020\_56095\_67074.jpg



View of WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>917 (cont)</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.539179 °	39.539179 °
				-121.706060 °	-121.706060 °
DWR ID	17169				

Photo 3 of 3 : UCIP\_SP\_2020\_56095\_67071.jpg



Headwall and flap gates (2) located on the WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.62	Rating **	M	Issue No.	918
LM End	2.62	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID	16402				

**Comment Code**

**Inspector Comment**

DS\_ID:16402  
FS\_ID:56096  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Sediment blocking LS slide gate from closing fully. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 Sediment still blocking screw gate from fully closing. (DWR Sutter Yard- A.Freitag)04/27/2016 LS slide gate is full of sediment and needs to be dug out so gate can close fully.07/01/2015 LS screw gate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.05/29/2014 Same as last inspection.12/09/2013 WS flap gate was closed but LS slide gate is heavily vegetated and blocked from closing by sediment.07/10/2013 Same as last inspection.04/19/2012 Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13G\_2011\_p\_0148 for LS gate obstructed by vegetation and WS flap gate is not functioning (propped open).  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. Structure used to drain water from Nelson Shippe Road. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.63). USACE Sacramento O&M Manual 519, June 1962 (HLM 2.63), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 895+65E LT BK, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/28/2019 1:13:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_56096\_67077.jpg



Overview looking south from left levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>2.62</b>	Rating **	M	Issue No.	<b>918 (cont)</b>
LM End	<b>2.62</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID	16402				

Photo 2 of 3 : UCIP\_SP\_2020\_56096\_67076.jpg



Headwall and flap gate located on WS.

LM Start	<b>2.62</b>	Rating **	M	Issue No.	<b>918 (cont)</b>
LM End	<b>2.62</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56096\_67078.jpg



Headwall and screw gate located on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.63	Rating **	M	Issue No.	919
LM End	2.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537671 °	39.537671 °
				-121.706210 °	-121.706210 °
DWR ID	16403				

**Comment Code**

**Inspector Comment**

DS\_ID:16403  
FS\_ID:55093  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.07/01/2015 WS flap gate is partially blocked by sediment and needs to be cleaned.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition.04/19/2012 Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Concrete "U" headwalls located on the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.64). USACE Sacramento O&M Manual 519, June 1962 (HLM 2.65), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 892+57E LT BK, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/28/2019 1:15:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55093\_67087.jpg



Overview at levee crown looking south

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>2.63</b>	Rating **	M	Issue No.	<b>919 (cont)</b>
LM End	<b>2.63</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537671 °	39.537671 °
				-121.706210 °	-121.706210 °
DWR ID	16403				

Photo 2 of 3 : UCIP\_SP\_2020\_55093\_67084.jpg



Headwall and flap gate located on WS

LM Start	<b>2.63</b>	Rating **	M	Issue No.	<b>919 (cont)</b>
LM End	<b>2.63</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55093\_67086.jpg



Headwall and screw gate located on the LS

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	920
LM End	2.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537466 °	39.537466 °
				-121.706240 °	-121.706240 °
DWR ID	16415				
Comment Code					
Inspector Comment					
DS_ID:16415 FS_ID:55094 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Both inlet/outlet were underwater during inspection. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 Both gates partially submerged during site visit. Appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/18/2016 LS screw gate closed but partially buried. WS flap gate was half submerged for inspection. (DWR Sutter Yard- AFreitag)04/27/2016 Both gates were underwater for inspection.07/01/2015 WS flap gate is partially held open by sediment and needs to be dug out to allow it to fully close.05/29/2014 Same as last inspection.12/09/2013 Both gates were out of water and in good condition.07/10/2013 LS and WS slopes are in good condition. Both LS and WS gates were fully submerged in water and unable to be inspected. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete "U" headwall on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS. [Additional Reference(s): DWR Levee Log, 1993 (HLM 2.65). USACE Sacramento O&M Manual 519, June 1962 (HLM 2.66), As-built DWG No. 50-4-3608, Sheet No. 3608/19.1, STA 891+80E LT BK, page 20 of 28 electronic file, listed as 36-inch CMP; As-built DWG No 50-4-3037 referenced not available] FS Date: 8/28/2019 1:16:00 PM					

Photo 1 of 3 : UCIP\_SP\_2020\_55094\_67090.jpg



Overview looking south from left levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	2.65	Rating **	M	Issue No.	920 (cont)	
LM End	2.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.537466 °	39.537466 °	
				-121.706240 °	-121.706240 °	
DWR ID	16415					

Photo 2 of 3 : UCIP\_SP\_2020\_55094\_67091.jpg



Headwall and flap gate located on WS.

LM Start	<b>2.65</b>	Rating **	M	Issue No.	<b>920 (cont)</b>
LM End	<b>2.65</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55094\_67092.jpg



WS headwall and flap gate.

LM Start	3.43	Rating **	M	Issue No.	88
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526115 °	39.534448 °
				-121.706692 °	-121.690426 °
DWR ID	DWR_MA0013_02_s_2020_88				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	3.59	Rating **	M	Issue No.	921
LM End	3.59	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.523829 °	39.523829 °	
			-121.706290 °	-121.706290 °	
DWR ID	16405				

**Comment Code**

**Inspector Comment**

DS\_ID:16405

FS\_ID:55095

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Structure is buried and non-functional. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Abandoned- LS slide gate completely buried in rice field and WS flap gate almost fully buried. (DWR Sutter Yard- AFreitag)11/18/2016 appears abandoned. Both gates completely buried. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears abandoned. LS screw gate still buried and WS flap gate was 95% buried.07/01/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flap gate is blocked from opening by sediment and debris.05/29/2014 Same as last inspection.12/09/2013 LS slide gate is completely buried by soil and WS flap gate is blocked from opening by sediment. Crossing appears abandoned and non-function.

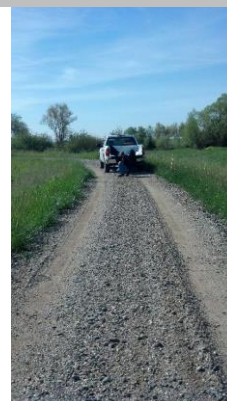
07/10/2013 LS and WS slopes have been cleared by vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected.04/19/2012 Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetation- need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#

USACE\_CESPK\_M13G\_2011\_p\_0172 for no access to WS gate due to high water & dense vegetation.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Concrete "U" headwalls located on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.61). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.61), As-built DWG No. 50-4-3608, Sheet No. 3608/5.2, 19.1, STA 4+50C RT. BK. (Cottonwood), page 5, 20 of 28 electronic file, listed as 36-inch pipe]

FS Date: 8/28/2019 1:27:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55095\_67094.jpg



Overview looking south from left levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>3.59</b>	Rating **	M	Issue No.	<b>921 (cont)</b>
LM End	<b>3.59</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.523829 °	39.523829 °	
			-121.706290 °	-121.706290 °	
DWR ID	16405				

Photo 2 of 3 : UCIP\_SP\_2020\_55095\_67095.jpg



Flap gate submerged in water on WS of levee

LM Start	<b>3.59</b>	Rating **	M	Issue No.	<b>921 (cont)</b>
LM End	<b>3.59</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55095\_67096.jpg



View of flap gate submerged on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>3.65</b>	Rating **	M	Issue No.	<b>922</b>
LM End	<b>3.65</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.523556 °	39.523556 °	
			-121.705340 °	-121.705340 °	
DWR ID	16848				

**Comment Code**

**Inspector Comment**

DS\_ID:16848  
FS\_ID:55096  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends submerged but appear to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition. New slide gate installed on LS.07/01/2015 Both gates were still submerged in water. Levee slopes were in good condition.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 LS slope has been cleared of vegetation and is in good condition. Both gates are still underwater and not able to be inspected.04/19/2012 Dense vegetation makes it difficult to evaluate the condition of the LS slope. Both gates underwater. Recommend taking photos of clear slopes and gates during fall inspection.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Concrete "U" headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Slide gate on the LS end. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.67). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.67), As-built DWG No. 50-4-3608, Sheet No. 3608/5.2, 19.1, STA 7+70C RT. BK. (Cottonwood), page 5, 20 of 28 electronic file, listed as 36-inch pipe]  
FS Date: 8/28/2019 1:19:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55096\_67102.jpg



Overview looking south on left levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>3.65</b>	Rating **	M	Issue No.	<b>922 (cont)</b>
LM End	<b>3.65</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.523556 °	39.523556 °
				-121.705340 °	-121.705340 °
DWR ID	16848				

Photo 2 of 3 : UCIP\_SP\_2020\_55096\_67103.jpg



Headwall and flap gate located on WS.

LM Start	<b>3.65</b>	Rating **	M	Issue No.	<b>922 (cont)</b>
LM End	<b>3.65</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55096\_67101.jpg



Headwall and screw gate located on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>3.83</b>	Rating **	M	Issue No.	<b>923</b>
LM End	<b>3.83</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.524350 °	39.524350 °	
			-121.702180 °	-121.702180 °	

DWR ID	16847
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Comment Code
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Inspector Comment
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DS_ID:16847 FS_ID:55097 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Both ends submerged but crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. It appears that this crossing does not require a slide gate. (DWR Sutter Yard- A.Freitag)04/27/2016 LS slide gate was still missing. Rest of crossing appears to be in good condition.07/01/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain.05/29/2014 Same as last inspection.12/09/2013 Pulled sticks from WS flap gate to allow it to close. LS gate is still missing.07/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks.04/19/2012 LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13J_2011_p_0010 for WS gate wedged open & missing LS slide gate. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 3.85). USACE Sacramento O&M Manual 519, June 1962 (HLM 3.85), As-built DWG No. 50-4-3608, Sheet No. 3608/5.2, 19.1, STA 16+85C RT. BK. (Cottonwood), page 5, 20 of 28 electronic file, listed as 36-inch pipe] FS Date: 8/28/2019 1:21:00 PM
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Photo 1 of 3 : UCIP\_SP\_2020\_55097\_67107.jpg



Overview looking south on left levee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>3.83</b>	Rating **	M	Issue No.	<b>923 (cont)</b>
LM End	<b>3.83</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.524350 °	39.524350 °	
			-121.702180 °	-121.702180 °	
DWR ID	16847				

Photo 2 of 3 : UCIP\_SP\_2020\_55097\_67108.jpg



Headwall and flap gate located on WS toe.

LM Start	<b>3.83</b>	Rating **	M	Issue No.	<b>923 (cont)</b>
LM End	<b>3.83</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55097\_67110.jpg



View of channel at crossing looking D/S.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

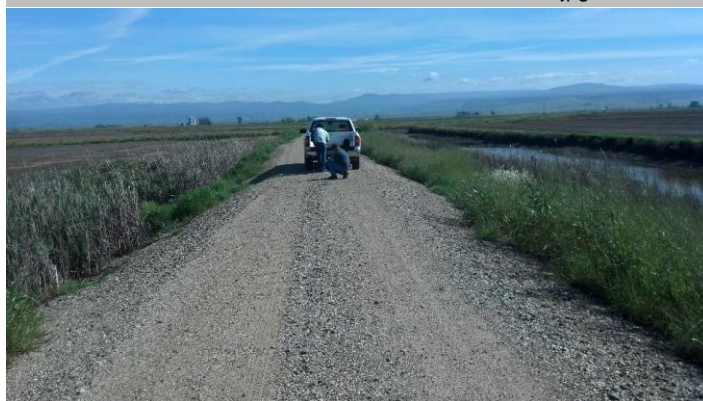
LM Start	4.17	Rating **	M	Issue No.	924
LM End	4.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.528210 °	39.528210 °
				-121.698410 °	-121.698410 °
DWR ID	16846				

**Comment Code**

**Inspector Comment**

DS\_ID:16846  
FS\_ID:55098  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/28/2019 Record remains Non-Urgent due to potential levee threat. Minor scour was visible on both WS and LS toe. No permit has been identified authorizing pipe. Pending internal inspection under DMP Phase 1 both inlet and outlet underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)6/5/2017 Both ends submerged during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 Both pipe ends underwater for this inspection. (DWR Sutter Yard- A.Freitag)04/27/2016 Both pipe ends were underwater for inspection.07/01/2015 Both pipe ends and gates were fully submerged.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 WS slope is cleared of vegetation and is in good condition. Both gates were fully submerged under water and unable to be inspected.04/19/2012 Rodent activity caused partial collapse on LS of levee in the vicinity of pipe. Limited inspection on WS slope due to dense vegetation. Limited inspection on gates due to both gates submerged under water.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. Concrete sump area with flash boards to drain farmers field is located on farmer's property near drain inlet. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.18). USACE Sacramento O&M Manual 519, June 1962 (HLM 4.20), As-built DWG No. 50-4-3608, Sheet No. 3608/19, STA 15+85G RT. BK. (Gold Run), page 20 of 28 electronic file, listed as 36-inch pipe]  
FS Date: 8/28/2019 1:31:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55098\_67115.jpg



Overview looking east on right bank of Cottonwood

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>4.17</b>	Rating **	M	Issue No.	<b>924 (cont)</b>
LM End	<b>4.17</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.528210 °	39.528210 °
				-121.698410 °	-121.698410 °
DWR ID	16846				

Photo 2 of 3 : UCIP\_SP\_2020\_55098\_67116.jpg



Unable to determine condition of flap gate on WS due to high water.

LM Start	<b>4.17</b>	Rating **	M	Issue No.	<b>924 (cont)</b>
LM End	<b>4.17</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55098\_67113.jpg



Overview of LS screw gate and concrete sump structure.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	4.65	Rating **	M	Issue No.	925	
LM End	4.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.532510 °	39.532510 °	
				-121.691340 °	-121.691340 °	
DWR ID	16845					
Comment Code						
Inspector Comment						
DS_ID:16845 FS_ID:55099 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 LS Slide gate mostly underwater due to rice field being flooded but crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)04/27/2016 Crossing appears to be in good condition.07/01/2015 Crossing appears to be in good condition. No noticeable issues to report.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/10/2013 WS slope has been cleared of vegetation and is in good condition.04/19/2012 Limited inspection due to dense vegetation on WS slope. Need photos of clear WS slope. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.6 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 4.69). USACE Sacramento O&M Manual 519, June 1962 (HLM 4.69), listed as 24-inch pipe] FS Date: 8/28/2019 3:31:00 PM						

LM Start	<b>4.65</b>	Rating **	M	Issue No.	<b>925 (cont)</b>
LM End	<b>4.65</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_55099\_67119.jpg



Overview looking east on right levee of Gold Run Creek (referred to Unit 2 of Cherokee Canal).

Photo 2 of 3 : UCIP\_SP\_2020\_55099\_67122.jpg



Headwall and flap gate located on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>4.65</b>	Rating **	M	Issue No.	<b>925 (cont)</b>
LM End	<b>4.65</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.532510 °	39.532510 °
				-121.691340 °	-121.691340 °
DWR ID	16845				

Photo 3 of 3 : UCIP\_SP\_2020\_55099\_67123.jpg



View of channel at crossing.

LM Start	4.78	Rating **	A/W	Issue No.	89
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.534475 °	39.534475 °
				-121.690421 °	-121.690421 °
DWR ID	DWR_MA0013_02_s_2020_89				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.01	Rating **	M	Issue No.	926	
LM End	5.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.526298 °	39.526298 °	
				-121.688320 °	-121.688320 °	
DWR ID	16395					
Comment Code						
Inspector Comment						
DS_ID:16395 FS_ID:56098 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 WS mostly submerged but crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)11/18/2016 Crossing appears to be in good condition. Pipe is a 30" cmp. (DWR Sutter Yard- AFreitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Erosion on LS does not appear to be getting any worse with the rip-rap there. WS pipe end and gate appeared in good condition.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.04/19/2012 Rusted pipe debris located on WS. Remove pipe debris on WS and monitor the LS erosion near headwall. Rip-rap used to protect LS headwall from erosion. Was pipe exposed prior to dumping rock? Erosion on the LS could have exposed pipe. Dense shrub on the LS could restrict flow. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.06), listed as 3-inch pipe. USACE Sacramento O&M Manual 519, June 1962 (HLM 5.06), listed as 30-inch pipe] FS Date: 8/28/2019 3:04:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_56098\_67131.jpg



Overview looking west on the left levee of Cottonwood

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>5.01</b>	Rating **	M	Issue No.	<b>926 (cont)</b>
LM End	<b>5.01</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.526298 °	39.526298 °
				-121.688320 °	-121.688320 °
DWR ID	16395				

Photo 2 of 3 : UCIP\_SP\_2020\_56098\_67129.jpg



Headwall and flap gate located on WS.

LM Start	<b>5.01</b>	Rating **	M	Issue No.	<b>926 (cont)</b>
LM End	<b>5.01</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56098\_67126.jpg



View of channel at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.09	Rating **	M	Issue No.	929	
LM End	5.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.526917 °	39.526917 °	
				-121.689340 °	-121.689340 °	
DWR ID	16408					
Comment Code						
Inspector Comment						
DS_ID:16408 FS_ID:56101 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Crossing appears to be in good condition. No apparent issues to report.05/29/2014 Same as last inspection.12/9/2013 Same as last inspection.07/09/2013 WS and LS slopes have been cleared of vegetation and are in good condition. Slide gate on LS has been replaced.04/24/2012 Slide gate is damaged, needs to be replaced. Limited inspection on WS slope and toe due to dense vegetation. Need photos of clear WS slope and toe. This crossing was listed in the USACE Periodic Inspection report as Corp's inspection ID# USACE_CESPK_M13H_2011_p_0026 for broken gate on LS. FIELD_STRUCT_DESC: 24-inch CIPP-lined corrugated metal drainage pipe through the levee, 5.7 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both WS and LS ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.13). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.13), listed as 24-inch pipe] FS Date: 8/28/2019 3:11:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_56101\_67138.jpg



Overview of levee crown at crossing looking west.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>5.09</b>	Rating **	M	Issue No.	<b>929 (cont)</b>
LM End	<b>5.09</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.526917 °	39.526917 °
				-121.689340 °	-121.689340 °
DWR ID	16408				

Photo 2 of 3 : UCIP\_SP\_2020\_56101\_67140.jpg



Headwall and flap gate located on WS.

LM Start	<b>5.09</b>	Rating **	M	Issue No.	<b>929 (cont)</b>
LM End	<b>5.09</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56101\_67141.jpg



Overview of LS floor is higher in elevation than pipe invert causing build up sediment.

LM Start	5.11	Rating **	M	Issue No.	90
LM End	5.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.526958 °	39.524171 °
				-121.689629 °	-121.699110 °
DWR ID	DWR_MA0013_02_s_2020_90				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>5.11</b>	Rating **	M	Issue No.	<b>91</b>
LM End	<b>5.70</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.526959 °	39.523877 °	
			-121.689629 °	-121.699697 °	
DWR ID	DWR_MA0013_02_s _ 2020_91				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	5.29	Rating **	M	Issue No.	930	
LM End	5.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.525958 °	39.525958 °	
				-121.692730 °	-121.692730 °	
DWR ID	16409					
Comment Code						
Inspector Comment						
DS_ID:16409 FS_ID:56102 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/28/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Internal inspection under DMP Phase 1 is still pending, both inlet and outlet are underwater. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 WS fully submerged and LS slide gate mostly buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/18/2016 There is a flap gate on the WS and a slide gate on the LS. The LS slide gate appears to be partially buried and blocked by vegetation. (DWR Sutter Yard- AFreitag)04/27/2016 LS slide gate is blocked by vegetation. Pipe appears to not be used.06/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away.05/29/2014 Same as last inspection.12/09/2013 Same as last inspection.07/09/2013 Same as last inspection.04/24/2012 Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0035 non-functional crossing due to overgrown vegetation on WS flap gate. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS). Concrete "U" headwalls located on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 5.34). USACE Sacramento O&M Manual 519, June 1962 (HLM 5.34), listed as 30-inch pipe] FS Date: 8/28/2019 3:22:00 PM						

Photo 1 of 3 : UCIP\_SP\_2020\_56102\_67146.jpg



Overview of crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>5.29</b>	Rating **	M	Issue No.	<b>930 (cont)</b>
LM End	<b>5.29</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.525958 °	39.525958 °
				-121.692730 °	-121.692730 °
DWR ID	16409				

Photo 2 of 3 : UCIP\_SP\_2020\_56102\_67149.jpg



View of WS headwall with dense vegetation in channel.

LM Start	<b>5.29</b>	Rating **	M	Issue No.	<b>930 (cont)</b>
LM End	<b>5.29</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56102\_67148.jpg



Headwall and flap gate located on WS.

LM Start	5.35	Rating **	M	Issue No.	57
LM End	5.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.525417 °	39.525417 °
				-121.693537 °	-121.693537 °
DWR ID	DWR_MA0013_02_f_2019_57				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>6.09</b>	Rating **	M	Issue No.	<b>92</b>
LM End	<b>17.22</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.522042 °	39.403087 °	
			-121.706103 °	-121.799785 °	
DWR ID	DWR_MA0013_02_s _ 2020_92				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>6.09</b>	Rating **	M	Issue No.	<b>93</b>
LM End	<b>8.63</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.522042 °	39.489472 °	
			-121.706104 °	-121.727539 °	
DWR ID	DWR_MA0013_02_s _ 2020_93				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>9.15</b>	Rating **	M	Issue No.	<b>94</b>
LM End	<b>15.48</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.482734 °	39.418790 °	
			-121.731611 °	-121.774338 °	
DWR ID	DWR_MA0013_02_s _ 2020_94				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	941
LM End	9.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.477438 °	39.477438 °
				-121.735200 °	-121.735200 °
DWR ID	16838				

**Comment Code**

**Inspector Comment**

DS\_ID:16838  
FS\_ID:55120  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 Path to access the WS flap gate was getting overgrown with vegetation but other than that everything with the crossing looked in good condition.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.04/24/2012 This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13F\_2011\_p\_0080 for limited visibility of LS slide gate and WS flap gate.07/09/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Crossing drains into Cherokee Canal and is part of the Richvale Irrigation District siphon structure. Slide gate is located on the landside (LS). Flap gate is located on the waterside (WS). Crossing angles to the southwest to a flap gate and headwall located about 60 feet from WS toe. [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 9.66), listed as 36-inch pipe drain into Cherokee Canal, As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 649+85E, page 21 of 28 electronic file]  
FS Date: 8/28/2019 4:05:00 PM

Photo 1 of 3 : UCIP\_SP\_2020\_55120\_67280.jpg



Overview of levee crown at crossing looking D/S.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.56	Rating **	M	Issue No.	941 (cont)
LM End	9.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.477438 °	39.477438 °
				-121.735200 °	-121.735200 °
DWR ID	16838				

Photo 2 of 3 : UCIP\_SP\_2020\_55120\_67285.jpg



View of crossing looking from channel towards WS levee.

LM Start	<b>9.56</b>	Rating **	M	Issue No.	<b>941 (cont)</b>
LM End	<b>9.56</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55120\_67283.jpg



WS view-access well located 60 feet from WS toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	9.57	Rating **	M	Issue No.	942
LM End	9.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.477335 °	39.477335 °
				-121.735340 °	-121.735340 °
DWR ID	16839				

**Comment Code**

**Inspector Comment**

DS\_ID:16839  
FS\_ID:55118  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/28/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing structure. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)06/05/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)11/18/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/27/2016 Crossing appears to be in good condition.06/30/2015 WS flap gate is silted over and unable to open. Needs to be dug out.05/28/2014 Same as last inspection.12/04/2013 Slopes were cleared of vegetation and are in good condition.07/09/2013 Same as last inspection.04/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of WS and LS slopes during next inspection with cleared slopes.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 519, June 1962 (HLM 9.68), As-built DWG No. 50-4-3608, Sheet No. 3608/20, ~ STA 648+82E, page 21 of 28 electronic file, listed as 30-inch; As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/28/2019 4:05:00 PM

LM Start	<b>9.57</b>	Rating **	M	Issue No.	<b>942 (cont)</b>
LM End	<b>9.57</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2020\_55118\_67289.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 1 of 2)

Photo 2 of 3 : UCIP\_SP\_2020\_55118\_67287.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 2 of 2)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>9.57</b>	Rating **	M	Issue No.	<b>942 (cont)</b>
LM End	<b>9.57</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.477335 °	39.477335 °
				-121.735340 °	-121.735340 °
DWR ID	16839				

Photo 3 of 3 : UCIP\_SP\_2020\_55118\_67286.jpg



View of crossing from LS. Dense vegetation along LS slope limited visual inspection. (LS Photo 1 of 2)

LM Start	10.77	Rating **	M	Issue No.	76
LM End	10.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.461876 °	39.461876 °
				-121.745735 °	-121.745735 °
DWR ID	DWR_MA0013_02_s_2019_76				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

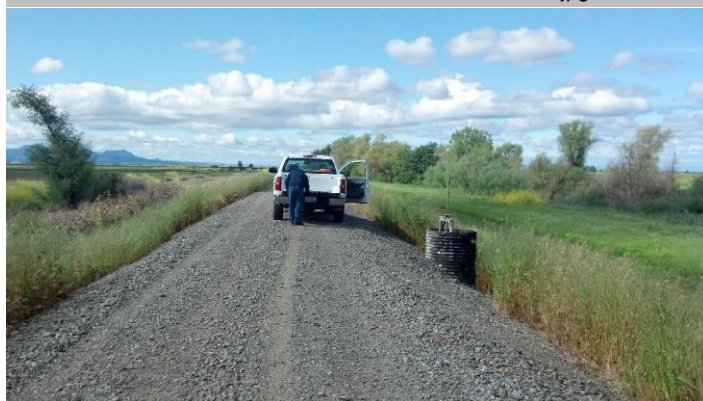
LM Start	12.88	Rating **	M	Issue No.	949
LM End	12.88	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.434779 °	39.434779 °	
			-121.763940 °	-121.763940 °	
DWR ID	16385				

**Comment Code**

**Inspector Comment**

DS\_ID:16385  
FS\_ID:56106  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Need to change structure type from drainage to irrigation siphon. This crossing is associated with DSID 16334 in Unit 1. LS slide gate was under water during inspection. This structure is not maintained or operated by LMA-DWR Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 WS end cannot be located due to heavy vegetation. LS screw gate was mostly submerged during site visit. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 WS still heavily vegetated and cannot access the WS pipe end for inspection. Vegetation needs to be cleared back. (DWR Sutter Yard- A.Freitag)04/26/2016 LS headwall was visible but gate was underwater. WS still heavily vegetated and unable to be inspected. Vegetation needs to be cleared back.06/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.04/24/2012 LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13F\_2011\_p\_0147 for limited visibility of LS and WS.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Slide gate in corrugated metal pipe riser on the waterside (WS) slope. Slide gate in ditch on the landside (LS). Pipe under channel is a 24-inch siphon. [Additional Reference(s): DWR Levee Log, 1993 (HLM 13.02). USACE Sacramento O&M Manual 519, June 1962 (HLM 13.03), listed as 30-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/9.3, 24.1, STA 474+13E, page 9, 24 of 31 electronic file, listed as combination of new 30-inch section pipe through the levee and existing 24-inch concrete siphon pipe through the channel (Keller Siphon structure, irrigation facilities); As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/29/2019 7:31:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_56106\_67336.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>12.88</b>	Rating **	M	Issue No.	<b>949 (cont)</b>
LM End	<b>12.88</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.434779 °	39.434779 °	
			-121.763940 °	-121.763940 °	
DWR ID	16385				

Photo 2 of 3 : UCIP\_SP\_2020\_56106\_67337.jpg



Stand pipe with screw gate WS

LM Start	<b>12.88</b>	Rating **	M	Issue No.	<b>949 (cont)</b>
LM End	<b>12.88</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56106\_67335.jpg



View of the inside of the WS stand pipe. No obstructions blocking slide gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.44	Rating **	M	Issue No.	951
LM End	15.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.419209 °	39.419209 °
				-121.773680 °	-121.773680 °
DWR ID	16376				

**Comment Code**

**Inspector Comment**

DS\_ID:16376  
FS\_ID:55129  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Crossing appears abandoned. LMA will need to coordinate with landowner to determine is drainage structure is still needed. DMP internal inspection shows that 90% of the pipe is filled with soil at a length of about 42 feet from WS flap gate. If crossing is not in use anymore, crossing will need to be abandoned properly or removed. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)5/30/2017 LS pipe end is buried and location unknown. WS flap gate is bolted shut. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard- AFreitag)4/26/2016 LS inlet appears to be buried as could not locate it. WS flap gate was bolted shut. This appears to be an abandoned crossing.6/30/2015 Still unable to locate the LS pipe end. 5/28/2014 Same as last inspection.12/4/2013 Same as last inspection. WS flap gate was bolted shut to keep LS rice field flooded.7/08/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unable to locate LS headwall.4/24/2012 Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13E\_2011\_p\_0011 for WS gate blocked by vegetation.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 15.62). USACE Sacramento O&M Manual 519, June 1962 (HLM 15.62), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, STA 405+05E, page 8 of 31 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]  
FS Date: 8/29/2019 7:32:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_55129\_67341.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>15.44</b>	Rating **	M	Issue No.	<b>951 (cont)</b>
LM End	<b>15.44</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.419209 °	39.419209 °	
			-121.773680 °	-121.773680 °	
DWR ID	16376				

Photo 2 of 3 : UCIP\_SP\_2020\_55129\_67343.jpg



Dense vegetation covering the majority of the WS. WS headwall difficult to see through dense vegetation.

LM Start	<b>15.44</b>	Rating **	M	Issue No.	<b>951 (cont)</b>
LM End	<b>15.44</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55129\_67342.jpg



View of WS headwall and flap gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	952
LM End	15.68	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.417043 °	39.417043 °	
			-121.777240 °	-121.777240 °	
DWR ID	16382				

**Comment Code**

**Inspector Comment**

DS\_ID:16382

FS\_ID:55974

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 08/29/2019 Record remains Non-Urgent, structure is non-functional and abandoned. Structure is abandoned. LMA will need to coordinate with landowner to determine if pipe is still needed as drainage structure. Dense vegetation covers the WS outlet and only LS headwall is visible at LS toe. If structure is no longer needed then structure will need to be abandoned properly or removed according to Title 23. DWR DMP internal inspection shows pipe has been filled with grout starting at about 47 feet from WS flap gate. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 LS pipe end is buried and location unknown. WS flap gate bolted shut. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/17/2016 Unable to locate LS pipe end. WS flap gate bolted shut. (DWR Sutter Yard-AFreitag)04/26/2016 Appears to be an abandoned crossing. LS pipe end was still buried and WS flap gate was bolted shut.06/30/2015 LS headwall still buried somewhere. WS looked to be in good condition.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection.04/24/2012 LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the status of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#

USACE\_CESPK\_M13E\_2011\_p\_0022 -- unknown issue.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). WS gate bolted shut and LS crossing is non-operable (inlet not found). Additional Reference(s): DWR Levee Log, 1993 (HLM 15.87). USACE Sacramento O&M Manual 519, June 1962 (HLM 15.87), As-built DWG No. 50-4-3511, Sheet No. 3511/8.3, STA 392+42E, page 8 of 31 electronic file, listed as 24-inch CMP; As-built DWG No 50-4-3037 referenced not available]

FS Date: 8/29/2019 7:33:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_55974\_67352.jpg



Overview of crossing looking downstream of the left bank of Cherokee

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	15.68	Rating **	M	Issue No.	952 (cont)
LM End	15.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.417043 °	39.417043 °
				-121.777240 °	-121.777240 °
DWR ID	16382				

Photo 2 of 3 : UCIP\_SP\_2020\_55974\_67351.jpg



View of WS slope. Limited inspection due to the dense vegetation.

LM Start	<b>15.68</b>	Rating **	M	Issue No.	<b>952 (cont)</b>
LM End	<b>15.68</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55974\_67350.jpg



View of WS headwall.

LM Start	17.28	Rating **	M	Issue No.	95
LM End	19.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.402530 °	39.379836 °
				-121.800638 °	-121.835979 °
DWR ID	DWR_MA0013_02_s_2020_95				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	17.41	Rating **	N	Issue No.	67
LM End	17.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.401331 °	39.401331 °
				-121.802480 °	-121.802480 °
DWR ID	DWR_MA0013_02_f_2016_67				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Approximately eight stumps are present at the landside toe.					

No Photos

LM Start	17.63	Rating **	U	Issue No.	69
LM End	17.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.399319 °	39.399147 °
				-121.805524 °	-121.805783 °
DWR ID	DWR_MA0013_02_f_2016_69				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_301\_69\_20200415\_00179.jpg



View of slope instability along the landside slope. Spring 2020.

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	956
LM End	18.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.394406 °	39.394406 °
				-121.813180 °	-121.813180 °
DWR ID	16379				

**Comment Code**

**Inspector Comment**

DS\_ID:16379  
FS\_ID:55133  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing pipe. Pipe is under water. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A.Freitag)11/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)04/26/2016 Crossing appears to be in good condition.06/30/2015 Vegetation still present on WS. LS side was underwater during inspection.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 LS slope cleared of vegetation and is in good condition. WS is still vegetated. LS pipe end under water and blocked off by plywood so unable to measure culvert size.04/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13E\_2011\_p\_0134 for unknown culvert size on LS and no outlet visible on WS.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both ends. [Additional Reference(s): DWR Levee Log, 1993 (HLM 18.37). USACE Sacramento O&M Manual 519, June 1962 (HLM 18.37), As-built DWG No. 50-4-3511, Sheet No. 3511/6. unable to read exact page, STA 261+67E, page 6 of 31 electronic file, listed as 36-inch CMP]  
FS Date: 8/29/2019 7:36:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_55133\_67387.jpg



Overview of crossing looking D/S at left bank of Cherokee Canal.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	18.16	Rating **	M	Issue No.	956 (cont)
LM End	18.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.394406 °	39.394406 °
				-121.813180 °	-121.813180 °
DWR ID	16379				

Photo 2 of 3 : UCIP\_SP\_2020\_55133\_67386.jpg



View of WS slope and berm.

LM Start	18.16	Rating **	M	Issue No.	956 (cont)
LM End	18.16	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55133\_67390.jpg



View of flap gate located on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	959	
LM End	19.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.378198 °	39.378198 °	
				-121.838570 °	-121.838570 °	
DWR ID	16375					
Comment Code						
Inspector Comment						
DS_ID:16375 FS_ID:55135 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe is scheduled to be lined. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Erosion still present at WS headwall. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/17/2016 Erosion still present at WS headwall. (DWR Sutter Yard- AFreitag)04/26/2016 Erosion still present behind the WS headwall. The rest of the crossing appears in good condition.06/30/2015 Erosion still present behind the WS headwall. Everything thing else with the crossing appeared to be in good condition.12/04/2013 Same as last inspection.05/28/2014 Same as last inspection.07/08/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape.04/24/2012 Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 13.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). [Additional Reference(s): DWR Levee Log, 1993 (HLM 20.15). USACE Sacramento O&M Manual 519, June 1962 (HLM 20.15), As-built DWG No. 50-4-3511, Sheet No. 3511/4.3, STA 168+68E, page 4 of 31 electronic file, listed as 30-inch CMP through the levee] FS Date: 8/29/2019 7:38:00 AM						

Photo 1 of 3 : UCIP\_SP\_2020\_55135\_67401.jpg



Erosion behind WS headwall looking at the downstream edge of headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	19.92	Rating **	M	Issue No.	959 (cont)	
LM End	19.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.378198 °		39.378198 °
				-121.838570 °		-121.838570 °
DWR ID	16375					

Photo 2 of 3 : UCIP\_SP\_2020\_55135\_67400.jpg



Erosion behind WS headwall at the upstream edge of headwall.

LM Start	<b>19.92</b>	Rating **	M	Issue No.	<b>959 (cont)</b>
LM End	<b>19.92</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55135\_67402.jpg



Flap gate located on the WS.

LM Start	20.52	Rating **	M	Issue No.	73
LM End	20.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.372486 °	39.372486 °
				-121.846537 °	-121.846537 °
DWR ID	DWR_MA0013_02_f_2016_73				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside slope and toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>20.59</b>	Rating **	M	Issue No.	<b>66</b>
LM End	<b>20.59</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.371955 °	39.371955 °	
			-121.847714 °	-121.847714 °	
DWR ID	DWR_MA0013_02_s_2019_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the trees from the landside slope.					

No Photos

LM Start	<b>20.70</b>	Rating **	M	Issue No.	<b>52</b>
LM End	<b>20.70</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.371108 °	39.371108 °	
			-121.849520 °	-121.849520 °	
DWR ID	DWR_MA0013_02_s_2014_52				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside slope and toe.					

No Photos

LM Start	<b>20.74</b>	Rating **	N	Issue No.	<b>74</b>
LM End	<b>20.74</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.370796 °	39.370796 °	
			-121.850124 °	-121.850124 °	
DWR ID	DWR_MA0013_02_f_2016_74				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	20.77	Rating **	M	Issue No.	75
LM End	20.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.370641 °	39.370641 °
				-121.850572 °	-121.850572 °
DWR ID	DWR_MA0013_02_f_2016_75				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_301\_75\_20200226\_00013.jpg



View of the erosion along the waterside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	21.35	Rating **	M	Issue No.	963
LM End	21.35	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.366155 °	39.366155 °	
			-121.859880 °	-121.859880 °	
DWR ID	16384				

**Comment Code**

**Inspector Comment**

DS\_ID:16384  
FS\_ID:55413  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/29/2019 Record remains Non-Urgent due to unauthorized encroachment with recent modifications. Structure type needs to be corrected from Drainage to Irrigation. During inspection water was flowing from WS to LS to irrigate the rice fields. Structure has been modified since 2012, unable to determine extent of repair through levee. Need to contact owner to determine section replaced through levee. Structure is not maintained or operated by LMA-DWR Sutter Yard. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard - A.Freitag)11/17/2016 Pipe section that crosses through the levee appears to be in good condition. (DWR Sutter Yard - A.Freitag)04/26/2016 Pipe appears to have been repaired. Not sure on the extent of the repairs or if they were approved by the Central Valley Flood Control Board.06/30/2015 Pipe is currently undergoing repairs. Not sure what all is planned to be fixed but will update the photos and inspection report with new details when its completed.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more details on repair.04/24/2012 Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13E\_2011\_p\_0234 for no WS gate but sluice gate present.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal irrigation pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe crosses the channel. Corroded section of existing pipe, 9-foot and 8-inch of an 18-inch corrugated metal pipe section, was replaced under Permit 7231 prior to 1974. (24-inch CMP authorized to match existing 24-inch CMP through left bank under Permit No. 7231, 1960 - Estate of Walter L. King) [Additional Reference(s): DWR Levee Log, 1993 (HLM 21.60). USACE Sacramento O&M Manual 519, June 1962 (HLM 21.60), As-built DWG No. 50-4-3511, Sheet No. 3511/22, STA 93+21E, page 22 of 31 electronic file, listed as 24-inch CMP section through the levee (irrigation structure); As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/29/2019 7:39:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_55413\_67447.jpg



Overview of crossing looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>21.35</b>	Rating **	M	Issue No.	<b>963 (cont)</b>
LM End	<b>21.35</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.366155 °	39.366155 °	
			-121.859880 °	-121.859880 °	
DWR ID	16384				

Photo 2 of 3 : UCIP\_SP\_2020\_55413\_67451.jpg



View of WS daylight. Hole present at pipe daylight.

LM Start	<b>21.35</b>	Rating **	M	Issue No.	<b>963 (cont)</b>
LM End	<b>21.35</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55413\_67450.jpg



WS-view of internal pipe with severe corrosion-holes present along pipe wall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>21.83</b>	Rating **	M	Issue No.	<b>965</b>
LM End	<b>21.83</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.362378 °	39.362378 °	
			-121.867350 °	-121.867350 °	
DWR ID	16394				

**Comment Code**

**Inspector Comment**

DS\_ID:16394  
FS\_ID:55414  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. Pipe has been lined and a new flap gate has been installed on the WS. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 WS flap gate showing signs of rusting and deterioration but still appears to be able to function properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard - A.Freitag)11/17/2016 WS flap gate is really rusted and deteriorated but it appears to still function properly. (DWR Sutter Yard - A.Freitag)04/26/2016 WS flap gate is really rusted and deteriorated. May need to be replaced. The rest of the crossing appeared in good condition.06/30/2015 Crossing is in good condition. No noticeable issues to be reported.05/28/2014 Same as last inspection.12/04/2013 WS and LS slopes are in good condition.07/08/2013 Same as last inspection.04/24/2012 Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE\_CESPK\_M13E\_2011\_p\_0251 for no outlet visible on WS. FIELD\_STRUCT\_DESC: 24-inch CIPP-lined corrugated metal drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete "U" headwalls on both WS and landside (LS). Rusted gate located on the WS (gate stuck). [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.08). USACE Sacramento O&M Manual 519, June 1962 (HLM 22.08), As-built DWG No. 50-4-3511, Sheet No. 3511/2.2 and 31.2, STA 67+70E, page 2, 31 of 31 electronic file, listed as 24-inch CMP section through the levee] FS Date: 8/29/2019 7:40:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_55414\_67462.jpg



Overview of crossing looking upstream at the left bank of Cherokee Canal.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

### Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>21.83</b>	Rating **	M	Issue No.	<b>965 (cont)</b>
LM End	<b>21.83</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.362378 °	39.362378 °	
			-121.867350 °	-121.867350 °	
DWR ID	16394				

Photo 2 of 3 : UCIP\_SP\_2020\_55414\_67460.jpg



View of WS headwall.

LM Start	<b>21.83</b>	Rating **	M	Issue No.	<b>965 (cont)</b>
LM End	<b>21.83</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_55414\_67461.jpg



Flap gate located on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.15	Rating **	M	Issue No.	970
LM End	22.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.359827 °	39.359827 °
				-121.872300 °	-121.872300 °
DWR ID	16391				

**Comment Code**

**Inspector Comment**

DS\_ID:16391  
FS\_ID:56064  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 08/29/2019 Record remains Non-Urgent, no permit has been identified authorizing pipe. WS outlet is blocked by dense vegetation. LS inlet is still unknown. DWR Geophysical Survey was unable to confirm alignment. Need to contact property owner to determine if crossing is still being used and confirm pipe alignment. (O. Magana - DWR UCIP, A. Freitag - DWR Sutter Yard)05/30/2017 Location of LS inlet still unknown. Need to trace with utility locator/GPR to find. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard - A.Freitag)11/17/2016 Unable to locate LS pipe end. WS appears to be in good condition. (DWR Sutter Yard - A.Freitag)04/26/2016 Still unable to locate the LS headwall and end of pipe. Pipe is still being used. Pipe was draining to WS.06/30/2015 Still unable to locate the LS headwall and pipe end.05/28/2014 Same as last inspection.12/04/2013 Same as last inspection.07/08/2013 Same as last inspection. Unable to locate LS headwall.04/24/2012 Unable to locate LS headwall. Need photo of LS headwall during next inspection.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 15.3 feet below the crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Flap gate on the WS end. This pipe runs on an angle through the levee, then underground along the LS slope to historic levee mile (HLM) 22.39 where it enters a ditch on the LS. [Additional Reference(s): DWR Levee Log, 1993 (HLM 22.41), listed as 30-inch pipe. USACE Sacramento O&M Manual 519, June 1962 (HLM 22.41), listed as 24-inch pipe, As-built DWG No. 50-4-3511, Sheet No. 3511/21.2, STA 50+87E, page 21 of 31 electronic file, listed as 30-inch CMP section through the levee (irrigation and drainage structures); As-built DWG No. 50-4-3037 referenced not available]  
FS Date: 8/29/2019 7:44:00 AM

Photo 1 of 3 : UCIP\_SP\_2020\_56064\_67498.jpg



View of WS slope looking from WS headwall to levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	<b>22.15</b>	Rating **	M	Issue No.	<b>970 (cont)</b>
LM End	<b>22.15</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.359827 °	39.359827 °	
			-121.872300 °	-121.872300 °	
DWR ID	16391				

Photo 2 of 3 : UCIP\_SP\_2020\_56064\_67496.jpg



View of WS slope looking from WS headwall to levee crown.

LM Start	<b>22.15</b>	Rating **	M	Issue No.	<b>970 (cont)</b>
LM End	<b>22.15</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2020\_56064\_67497.jpg



View of flap gate on WS.

LM Start	22.32	Rating **	M	Issue No.	63
LM End	22.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358453 °	39.358453 °
				-121.875030 °	-121.875030 °
DWR ID	DWR_MA0013_02_s_2019_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the fallen trees along the landside slope and toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard Maintenance Area 0013

View of slope instability issue along the landside slope.

View of erosion on the landside slope. Fall 2019.

View of sloughing on the landside slope. Fall 2019.

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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020**

**Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	04/09/2020 04/09/2020	Makar Sokol

LM Start	22.58	Rating **	U	Issue No.	61
LM End	22.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.356476 °	39.356476 °
				-121.879089 °	-121.879089 °
DWR ID	DWR_MA0013_02_s_2019_61				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2020\_MA0013\_301\_61\_20200226\_00010.jpg



View of the erosion at the landside shoulder and slope. Spring 2019.

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement